

SHIVAKI

MULTI-SPLIT TYPE AIR CONDITONER

SERVICE MANUAL

V:4.0

● INDOOR UNIT:

SSH-PM074DC

SSH-PM094DC

SSH-PM124DC

SSH-PM184DC

● OUTDOOR UNIT:

SRH-PM18DC

SRH-PM24DC

SRH-PM36DC

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1. OPERATING RANGE

	Temperature	Indoor Air Intake Temp.	Outdoor Air Intake Temp
COOLING	Maximum	32°C D.B./23°C W.B.	43 °C D.B./26°C W.B.
	Minimum	21°C D.B./15°C W.B.	21 °C D.B./15°C W.B.
HEATING	Maximum	27°C D.B./18°C W.B.	24°C D.B./18°C W.B.
	Minimum	20°C D.B./≤15°C W.B	-7°C D.B./-8°C W.B.

2. SPECIFICATIONS

2-1. Unit specifications

2-1-1.OUTDOOR UNIT

Model									SRH-PM18DC	
Function			Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Power supply			a.c 220V~240V/50Hz							
Capacity	Capacity	kW	8.2	9.0	7.0	8.0	5.8	6.4	4.6	5.3
	Dehumidification	ℓ/h	----	----	----	----	----	----	----	----
	Air flow	m³/h	----	----	----	----	----	----	2400	2400
Electrical data	Rated current	A	10.7	11.1	9.7	10.1	7.7	8.0	6.1	5.7
	Rated input	kW	2.4	2.49	2.18	2.21	1.7	1.75	1.4	1.3
	Auxiliary heater	A	-----							
	Power factor	%	99.9%		99.9%		99.9%		99.9%	
	Max. current	A	15.0		15.0		14.5		10.0	
EER/CPOP			3.42/.362		3.21/3.62		3.41/3.66		3.29/4.08	
Compressor	Model		ATL165SD-C9AU				DA130S1C-20FZ		DA130S1C-20FZ	
	Winding resistance	Ω	0.590 (at75℃)				0.95 (20℃)		0.95 (20℃)	
Outdoor fan motor	Model		YDK70-6H-3				YDK55-6I-8		YDK29-6I-22	
	Winding resistance (at20℃)	Ω	M:78;A:80				M:185;A:200		M:283.5;A:180	
Net size	L×W×H	cm	109×41×84				98×35×64		80×26×57	
Package size	L×W×H	cm	112×46×98				108×42×72		94×36×64	
Net weight		kg	67		66		46.5		36.5	
Gross weight		kg	77		76		52.5		40	
Refrigerant piping	Liquid pipe	mm	6.35×4		6.35×3		6.35×2		6.35×2	
	Gas pipe	mm	9.52×4		9.52×3		9.52×2		9.52×2	
	Connection method		Flare				Flare		Flare	
Special remarks	Air direction		----		----		----		----	
	Sound level (Hi)	dB	57				57		48	
	Fan speed (Hi)	rpm	840				840		900	
	Fan speed regulator		3				3		3	
	Refrigerant filling capacity(R410a)	kg	2.4		2.1		1.4		1.27	
	Throttle mode		EEV		EEV		EEV		EEV	

2. SPECIFICATIONS

Model					SRH-PM24DC		SHR-PM36DC	
Function			Cooling	Heating	Cooling	Heating	Coolng	Heating
Power supply			a.c 220V~240V/50Hz					
Capacity	Capacity	kW	6.0	7.0	7	7.8	10	1.1
	Dehumidification	ℓ/h	----	----	----	----	----	----
	Air flow	m ³ /h	----	----	3200	3200	4200	4200
Electrical data	Rated current	A	8.55	8.58	10.0	9.5	14.5	14.0
	Rated input	kW	1.87	1.9	2.18	2.1	3.1	3.04
	Auxiliary heater	A	-----					
	Power factor	%	99.9%		99.9%		99.9%	
	Max. current	A	13.5		15.5		22.0	
EER/COP			3.21/3.70		3.21/3.71		3.22/3.62	
Compressor	Model		ATL165SD-C9AU				ATL232SJNC9AU	
	Winding resistance	Ω	0.590 (at75℃)				0.95 (20℃)	
Outdoor fan motor	Model		YDK55-6I-8		YDK70-6H-3		YDK95-6-9043	
	Winding resistance (at20℃)	Ω	M:185;A:200		M:78;A:80		M:59.1;A:85.8	
Net size	L×W×H	cm	98×35×64				109×41×84	
Package size	L×W×H	cm	108×42×72				111×46×98	
Net weight		kg	52		53		67	
Gross weight		kg	56		57		77	
Refrigerant piping	Liquid pipe	mm	6.35×3		6.35×3		6.35×4	
	Gas pipe	mm	9.52×3		9.52×3		9.52×4	
	Connection method		Flare				Flare	
Special remarks	Air direction		----		----		----	
	Sound level (Hi)	dB	53				57	
	Fan speed (Hi)	rpm	840				800	
	Fan speed regulator		3				3	
	Refrigerant filling capacity(R410a)	kg	1.6		1.75		2.6	
	Throttle mode		EEV		EEV		EEV	

NOTE :Test conditions:

Cooling : Indoor: DB27℃/ WB19℃ Outdoor: DB35℃/ WB24℃

Heating: Indoor: DB20℃/ WB15℃ Outdoor: DB7℃/ WB 6℃

2. SPECIFICATIONS

2-1-2.INDOOR UNIT

Model			SSH-PM074DC SSH-PM094DC		SSH-PM124DC		SSH-PM184DC	
Function			Cooling	Heating	Cooling	Heating	Cooling	Heating
Power supply			a.c 220V~240V/50Hz					
Capacity	Capacity	kW	2.1/2.6	2.5/3.0	3.2	3.7	5.0	5.5
	Dehumidification	l /h	0.8	----	0.8	----	1.5	----
	Air flow	³ m /h	400	520	450	560	800	900
Electrical data	Running current	A	0.2	0.2	0.2	0.2	0.4	0.4
	Rated input	kW	0.04	0.04	0.04	0.04	0.085	0.085
	Auxiliary heater	A	----					
	Power factor	%	----					
	Starting current	A	----					
EER/COP			----					
Compressor	Model		----					
	Winding resistance (at25℃)	Ω	----					
Indoor fan motor	Model		YYW16-4-532				RPG25A-6	
	Winding resistance (at20℃)	Ω	M:364;A:400.5;				M:211.2;A:211;	
Outdoor fan motor	Model		----					
	Winding resistance (at20℃)	Ω	----					
Net size	L×W×H	cm	75×25×19		75×25×19		92×31.3×22.6	
Package size	L×W×H	cm	80×31×25（VQ: 88×33×26）		80×31×25（VQ: 88×33×26）		100.7×38×29.7	
Net weight		kg	7.5		7.5		11.5	
Gross weight		kg	9.0		9.0		14.0	
Refrigerant piping	Liquid pipe	mm	6.35		6.35		6.35	
	Gas pipe	mm	9.52		9.52		9.52	
	Connection method		----					
Special remarks	Air direction		6		6		6	
	Sound level (Hi)	dB	24/27		30		32	
	Fan speed (Hi)	rpm	1150		1250		1300	
	Fan speed regulator		3		3		3	
	Refrigerant filling capacity(R410a)	kg	----					
	Throttle mode		----					

2. SPECIFICATIONS

2-2. Major component specifications

2-2-1.INDOOR FAN MOTOR

ELECTRIC PERFOMANCE	PARAMETER	
	SSH-PM074DC SSH-PM094DC SSH-PM124DC	SSH-PM184DC
Motor model	YYW16-4-532	RPG25A-6
Rated power source	220V 50Hz	220V 50HZ
Phases/Poles	1/4	1/4
Rated load output(W)	18	25
Rated speed(r/min)	1250	1270
Ambient temperature(°C)	-5°C ~ +43°C.	-5°C ~ +43°C.

ELECTRIC PERFOMANCE	PARAMETER		
Motor model	YSK95-25-4HS10	YSK95-40-4HS11	
Rated power source	220V 50Hz	220V 50Hz	
Phases/Poles	1/4	1/4	
Rated load output(W)	25	42	
Rated speed(r/min)	980/850/700(White) 1150/1070/980(Red)	1360/1300/1240(Red) 1240/1155/1050 (White)	
Ambient temperature(°C)	-5°C ~ +43°C.	-5°C ~ +43°C	

ELECTRIC PERFOMANCE	PARAMETER	
Motor model	YDK95-28-4-B	
Rated power source	220V 50Hz	
Phases/Poles	1/4	
Rated load output(W)	25	
Rated speed(r/min)	720/840/980	
Ambient temperature(°C)	-5°C ~ +43°C.	

2. SPECIFICATIONS

2-2-2 OUTDOOR FAN MOTOR

ELECTRIC PERFORMANCE	PARAMETER			
	SRH-PM24DC	SRH-PM36DC		SRH-PM18DC
Motor model	YDK70-6H-3	YDK95-6-9043	YDK55-6I-8	YDK29-6I-22
Rated power source	220V 50Hz	220V 50Hz	220V 50Hz	220V 50Hz
Phases /Poles	1/6	1/6	1/6	1/6
Rated load output(W)	65	95	50	29
Ambient temperature (°C)	-5°C ~ +43°C	-5°C ~ +50°C	-5°C ~ +43°C	-5°C ~ +43°C

2-3. COMPRESSOR

ELECTRIC PERFORMANCE		PARAMETER		
			SRH-PM36DC	SRH-PM18DC
Compressor model		ATL165SD-C9AU	ATL232SJNC9AU	DA130S1C-20FZ
Compressor type		Rotary	Rotary	Rotary
Rated power		1550W	2000W	990W
Current (A)		10.7	11.2	4.97
Motor	Motor type	DC brushless motor	DC brushless motor	DC brushless motor
	Starting type	DC Inverter	DC Inverter	DC Inverter
	Winding resistance	0.59/0.59/0.59 Ω (at 75°C) U-V/V-W/W-U	0.82/0.82/0.82 Ω (at 75°C) U-V/V-W/W-U	0.95/0.95/0.95 Ω (at 20°C) U-V/V-W/W-U
Number of cylinder		2	2	2
Oil type		α 68HES-H or equivalent	HAF68D1C	ESTER OIL VG74
Oil charge (cc)		880	880	500
Ambient temperature(°C)		-5°C ~ +43°C.	-5°C ~ +43°C	-5°C ~ +43°C

2. SPECIFICATIONS

2-3. Other component specifications

2-3-1. INDUCTANCE

ELECTRIC PERFORMANCE	PARAMETER	
	SRH-PM24DC SRH-PM36DC	SRH-PM18DC
Inductance model	R2550HSA	R2050HSB
Rated power source	220V 50Hz	220V 50Hz
Rated current(A)	25	20
Rated inductance	5.0 (mH) $\pm 10\%$	5.2 (mH) $\pm 10\%$
Ambient temperature($^{\circ}\text{C}$)	-20 $^{\circ}\text{C}$ \sim +70 $^{\circ}\text{C}$.	-20 $^{\circ}\text{C}$ \sim +70 $^{\circ}\text{C}$.

2-3-2. FILTER

ELECTRIC PERFORMANCE	SRH-PM24DC	SRH-PM36DC	SRH-PM18DC
Filter model	RTNF-250T10X-3LF	RTNF250-30T10X-3LF	RTNF250-25T068X-03LF
Rated current(A)	20	30	20
Rated power source	AC 220V—50Hz	AC 220V—50Hz	AC 220V—50Hz
Filter frequency range	150K—30MHz	150K—30MHz	150K—30MHz
Temperature range($^{\circ}\text{C}$)	-25 $^{\circ}\text{C}$ \sim +85 $^{\circ}\text{C}$.	-25 $^{\circ}\text{C}$ \sim +85 $^{\circ}\text{C}$.	-25 $^{\circ}\text{C}$ \sim +85 $^{\circ}\text{C}$.

2-3-4. STEPPER MOTOR

ELECTRIC PERFORMANCE	PARAMETER	
	SSH-PM074DC SSH-PM094DC SSH-PM124DC	SSH-PM184DC
Stepper Motor model	24BYJ48	
Voltage(DC)	12V	
Number of phase	4	
Drive mode	1-2phase excitation unipolar drive	
Resistance per phase	300 Ω $\pm 7\%$	
Temperature range($^{\circ}\text{C}$)	-10 $^{\circ}\text{C}$ \sim +40 $^{\circ}\text{C}$	

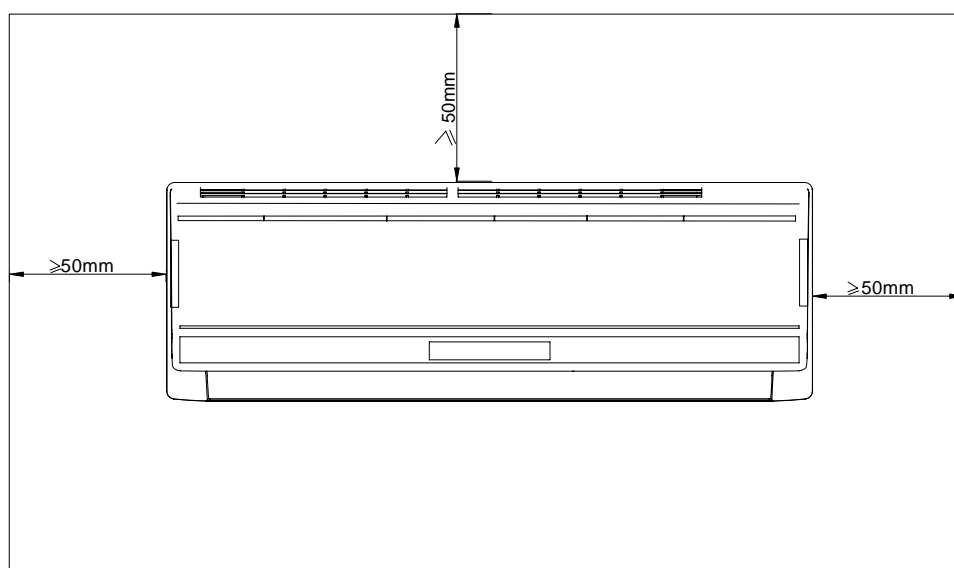
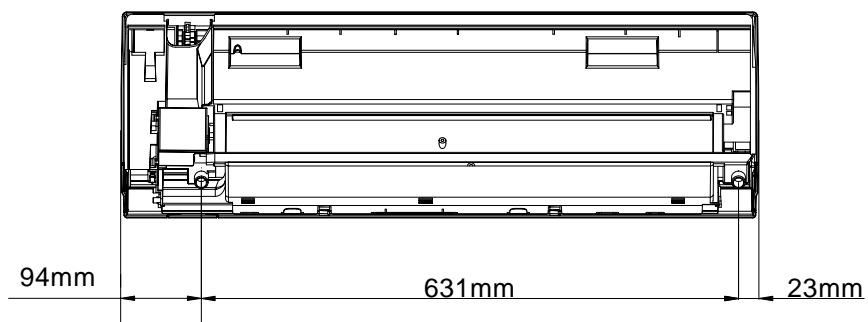
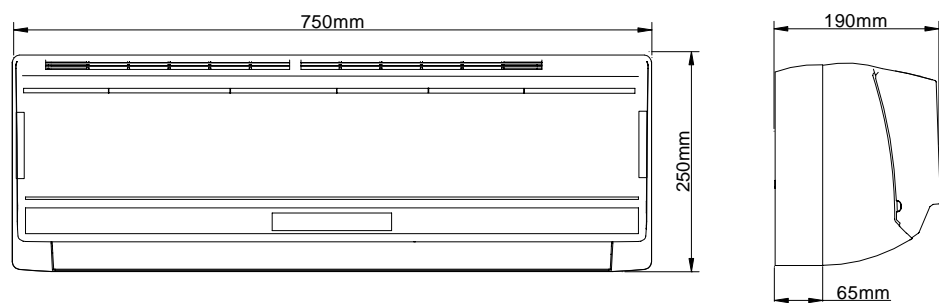
3. OUTLINES AND DIMENSIO

3-1. INDOOR

SSH-PM074DC

SSH-PM094DC

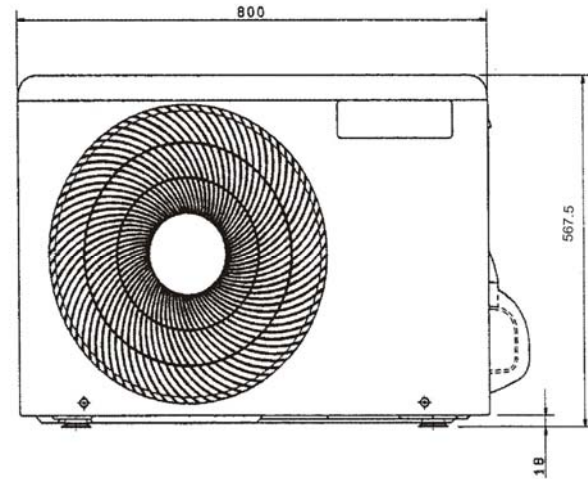
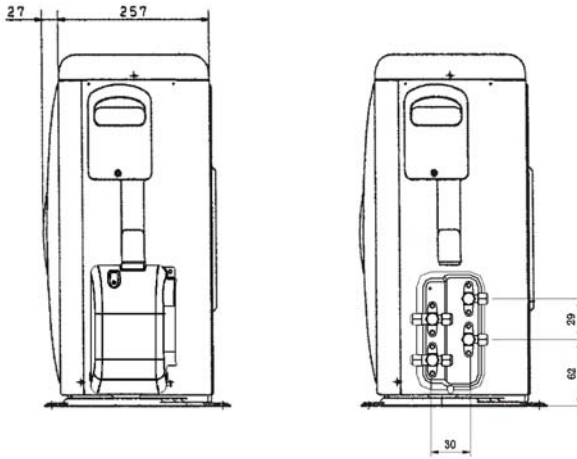
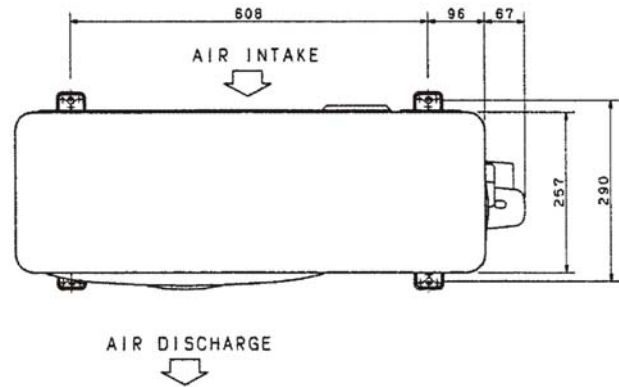
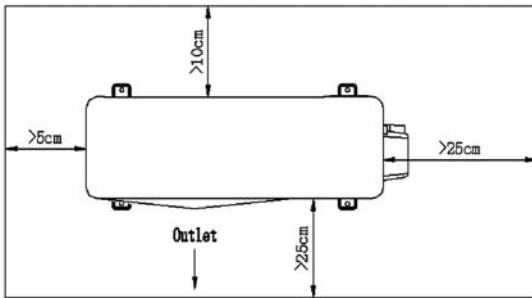
SSH-PM124DC



3. OUTLINES AND DIMENSIO

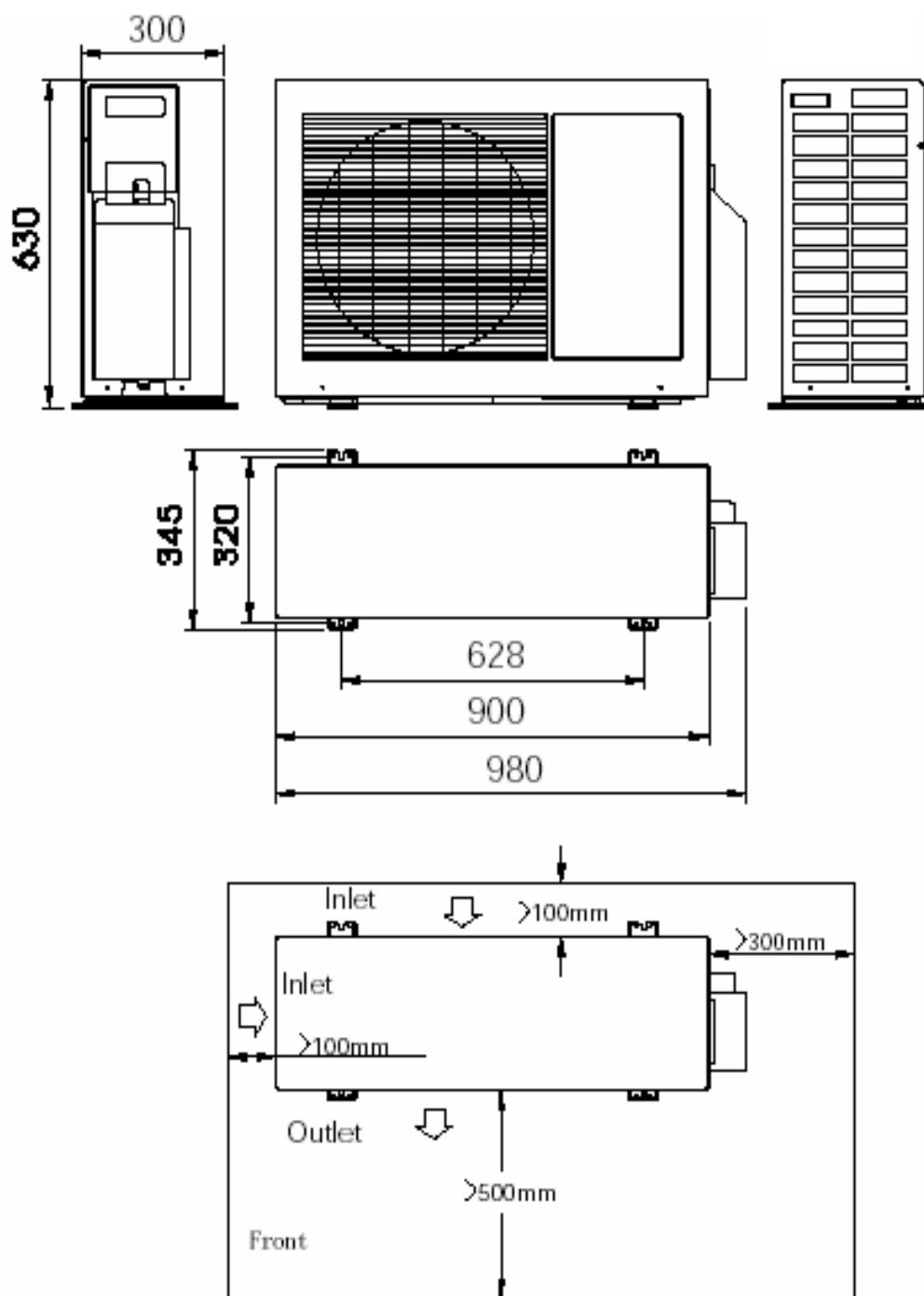
3-2.OUTDOOR

SRH-PM18DC



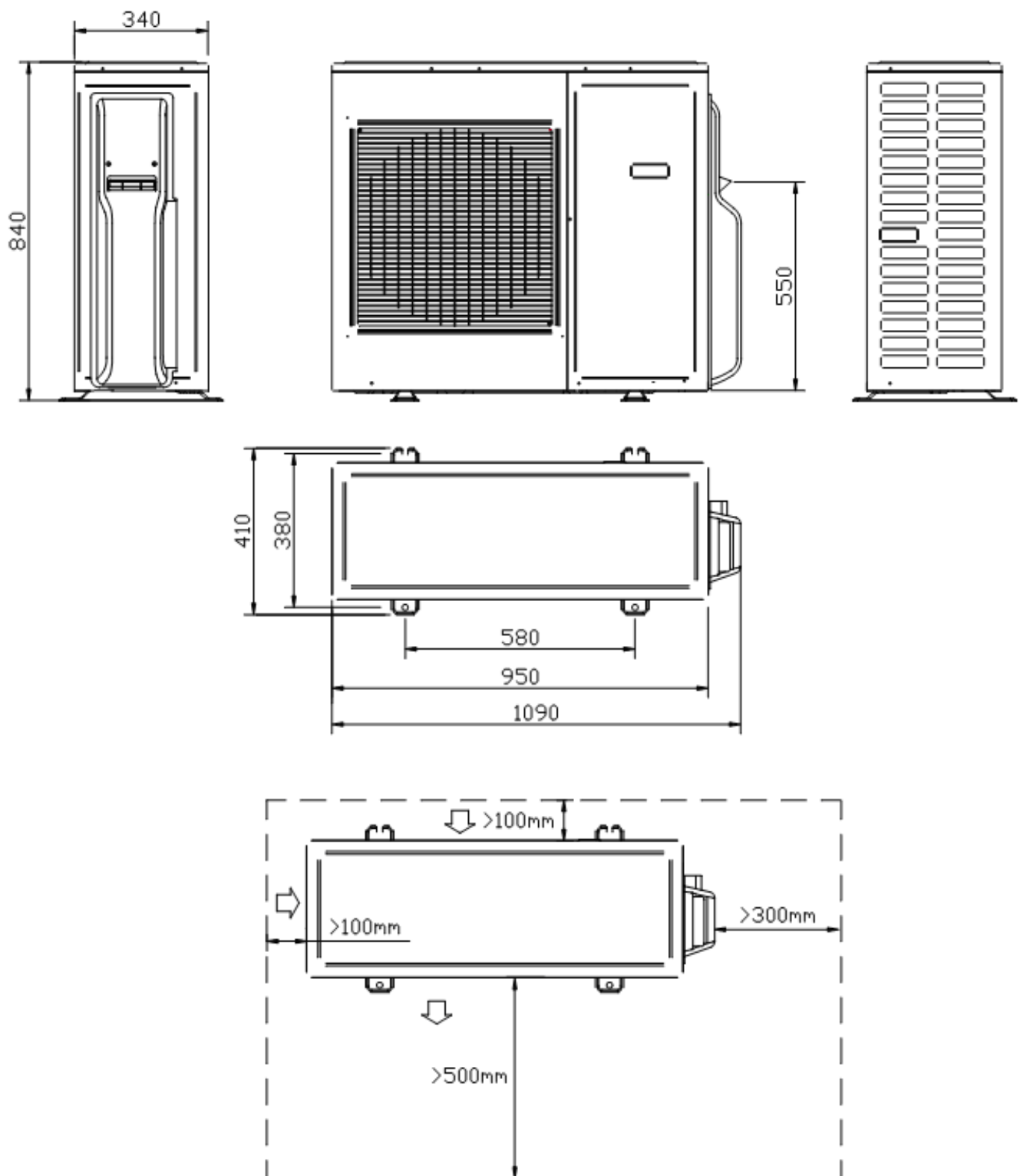
3. OUTLINES AND DIMENSIO

SRH-PM24DC



3. OUTLINES AND DIMENSIO

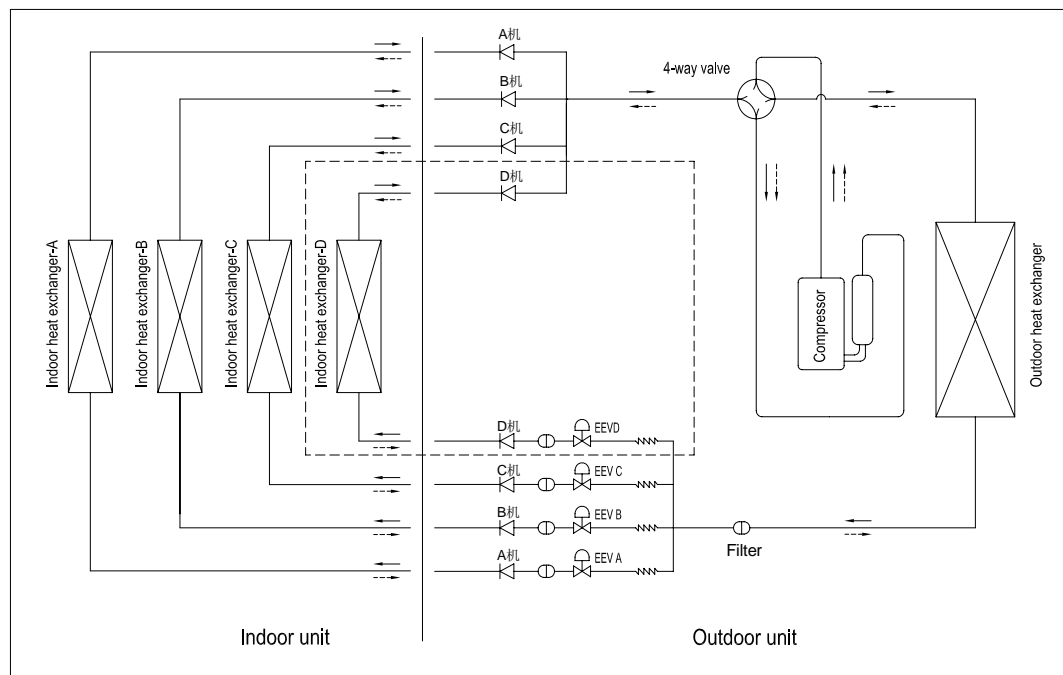
SRH-PM36DC


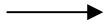
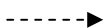


4. REFRIGERANT FLOW DIAGRAM

4-1. Refrigerant flow diagram :

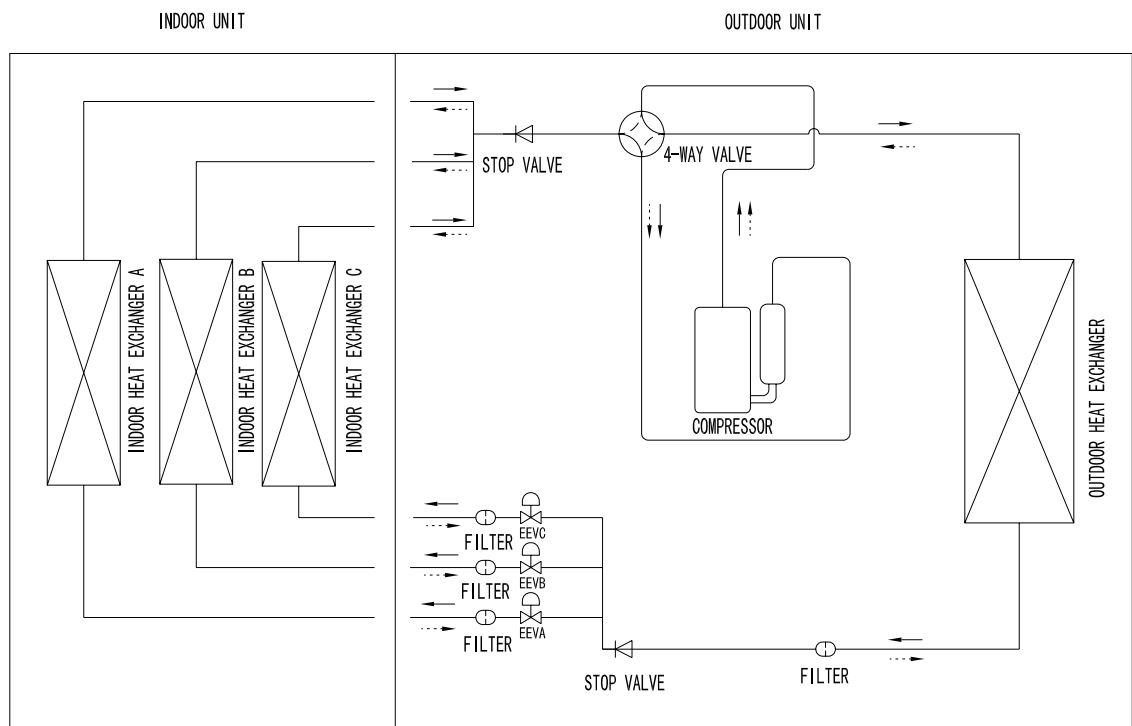
MODEL: SRH-PM36DC



Remark:  The part is only for SRH-PM36DC **1MW4-36U4SAC**
 **COOLING CYCLE**
 **HEATING CYCLE**

4. REFRIGERANT FLOW DIAGRAM

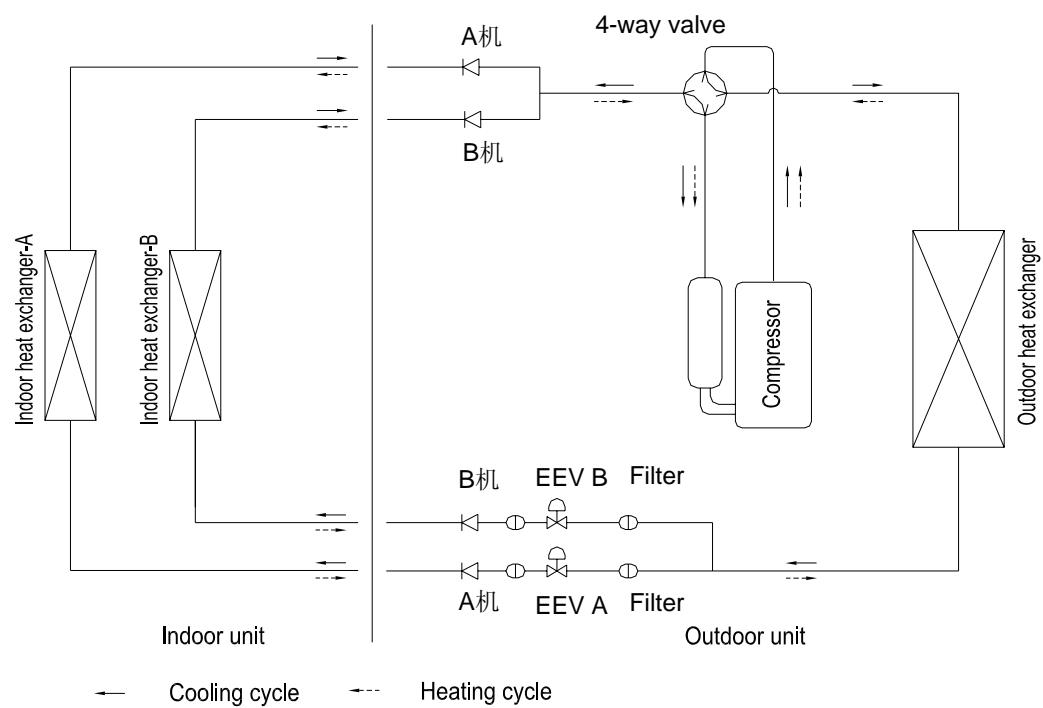
MODEL: SRH-PM24DC



—►COOLING CYCLE
 - - -►HEATING CYCLE

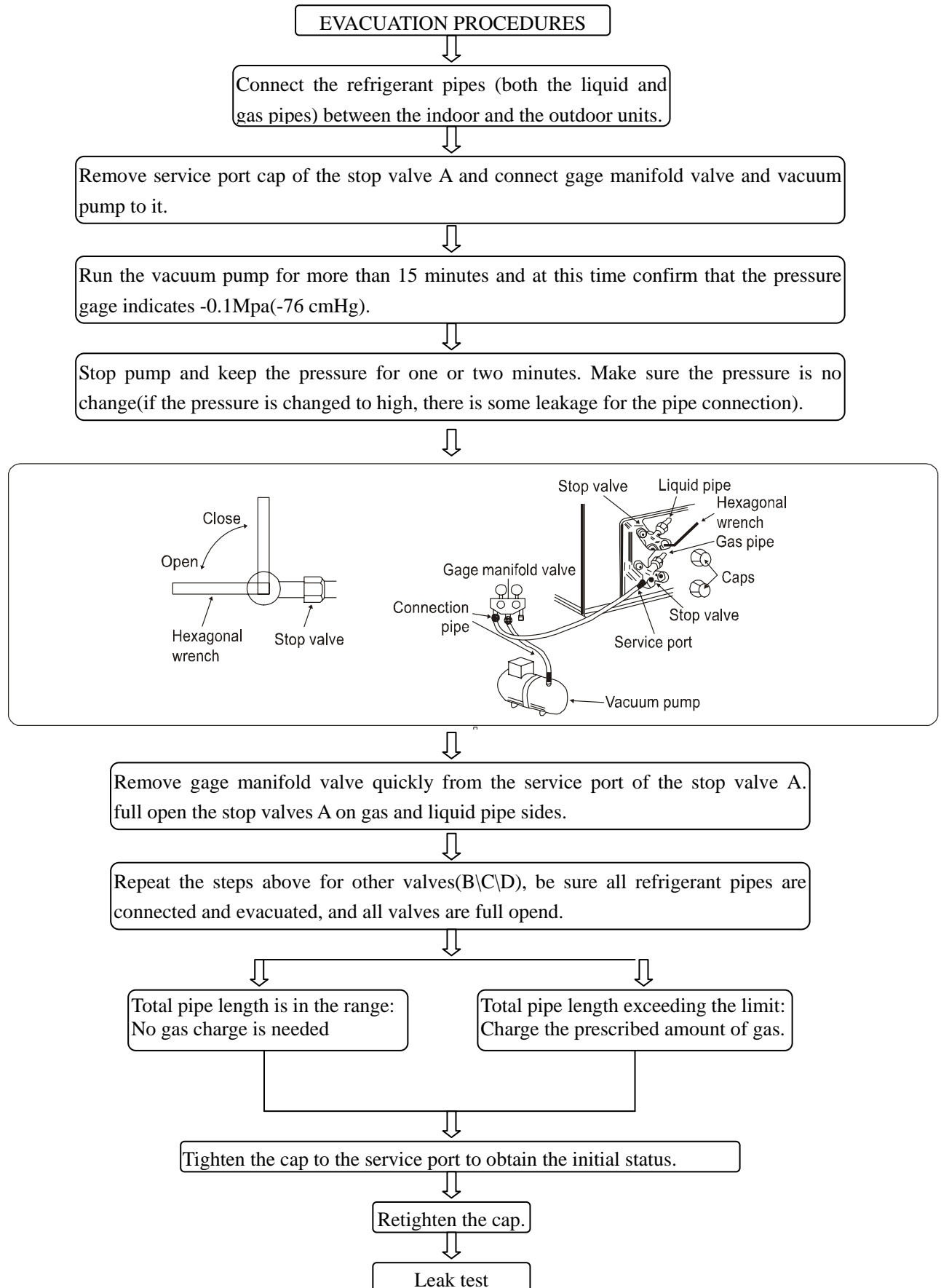
4. REFRIGERANT FLOW DIAGRAM

MODEL: SRH-PM18DC



4. REFRIGERANT FLOW DIAGRAM

4.2 Evacuation procedures:



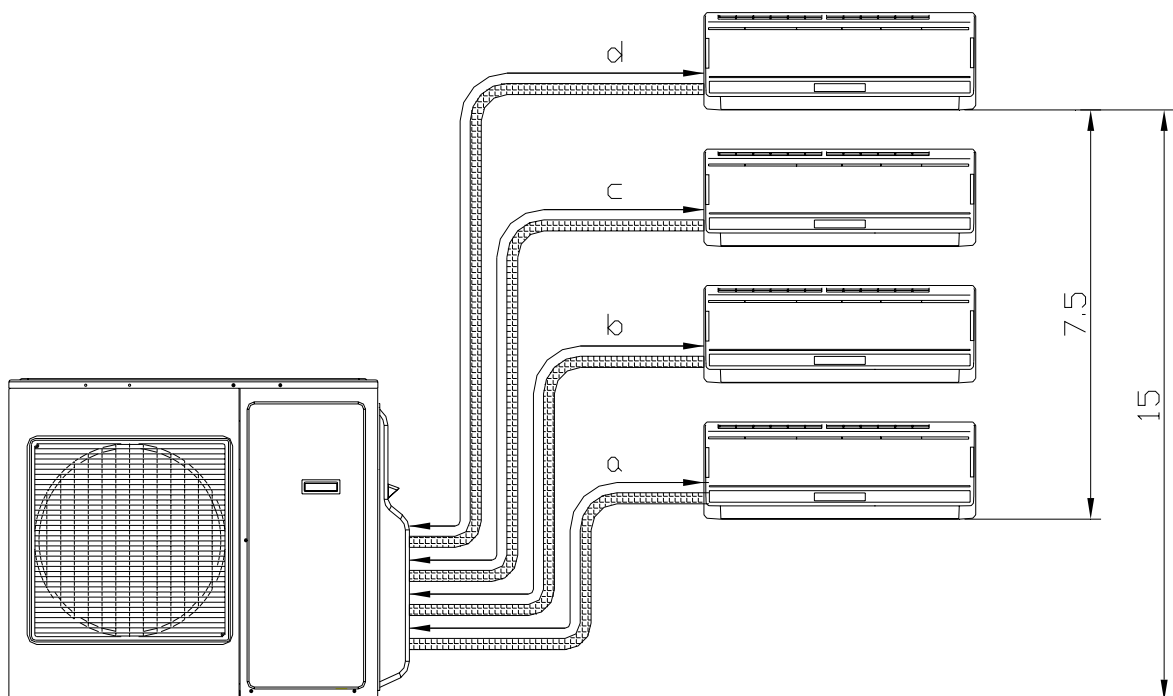
4. REFRIGERANT FLOW DIAGRAM

4-3. Evacuation direction:

MAX. Refrigerant pipe length and height difference:

Modle	SRH-PM24DC SRH-PM36DC	SRH-PM18DC
Pipe length per. Indoor unit (a/b/c/d)	25m	20m
Total pipe length for multi-system (a+b+c+d)	60m	40m
Height difference (I.D ~ O.D)	15m	15m
Height difference (I.D ~ I.D)	7.5m	7.5m

*Do your best to reduce the pipe length. Long pipe may cause capacity of the indoor unit incline.



Outdoor unit precharged		Total refrigerant pipe length	
		0m~20m	20m~60m
	2100g	0g	$Xg = 15g / m \times (\text{Total pipe length}(m) - 20)$ If gas pipe include 12.7,refrigerant piping length 20g/m
	2400g	0g	
SRH-PM36DC	2600g	0g	
SRH-PM24DC	1750g	0g	
	1600g	0g	
Outdoor unit precharged		Total refrigerant pipe length	
		0m~15m	15m~40m
	1400g	0	$Xg = 15g / m \times (\text{Total pipe length}(m) - 15)$
SRH-PM18DC	1270g		

5. ELECTRICAL DATA

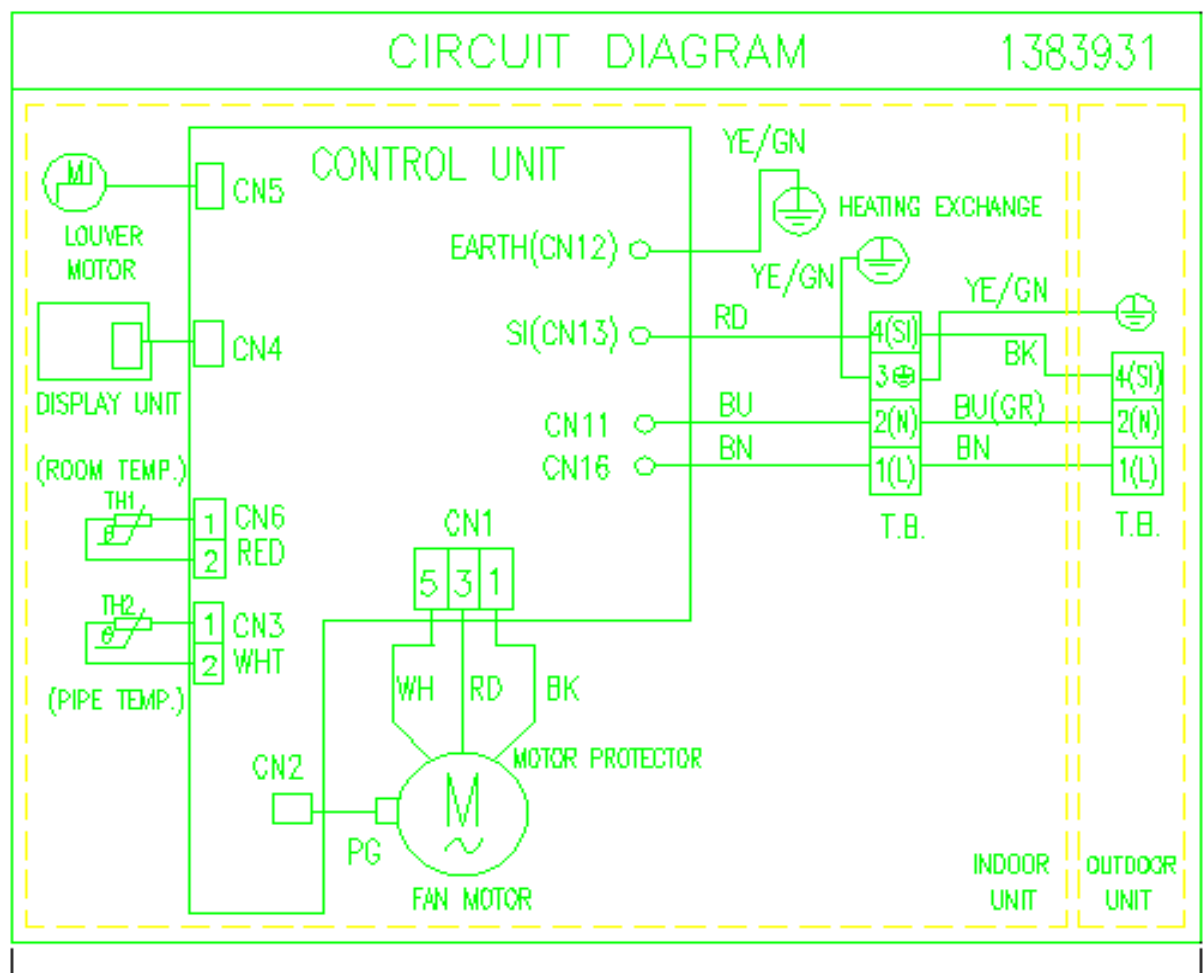
5-1. Electrical wiring diagrams

INDOOR:

SSH-PM074DC

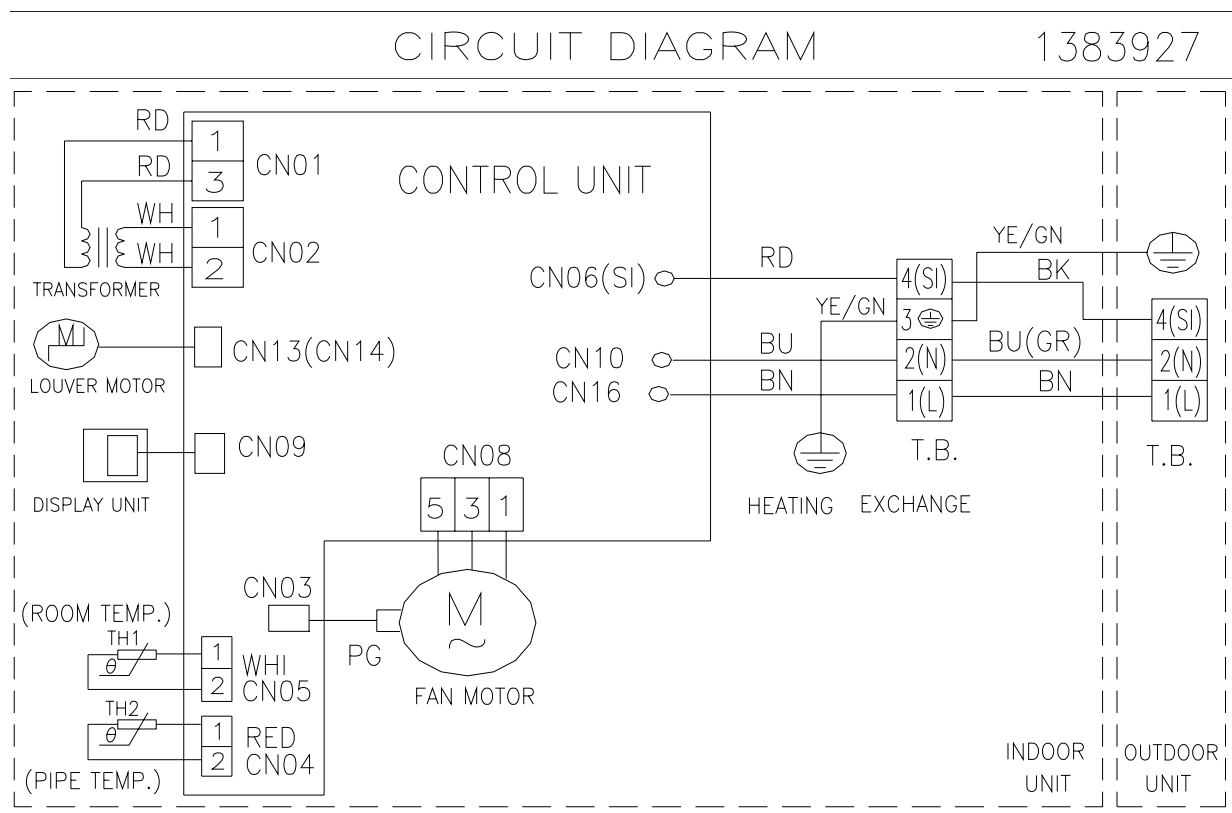
SSH-PM094DC

SSH-PM124DC



5. ELECTRICAL DATA

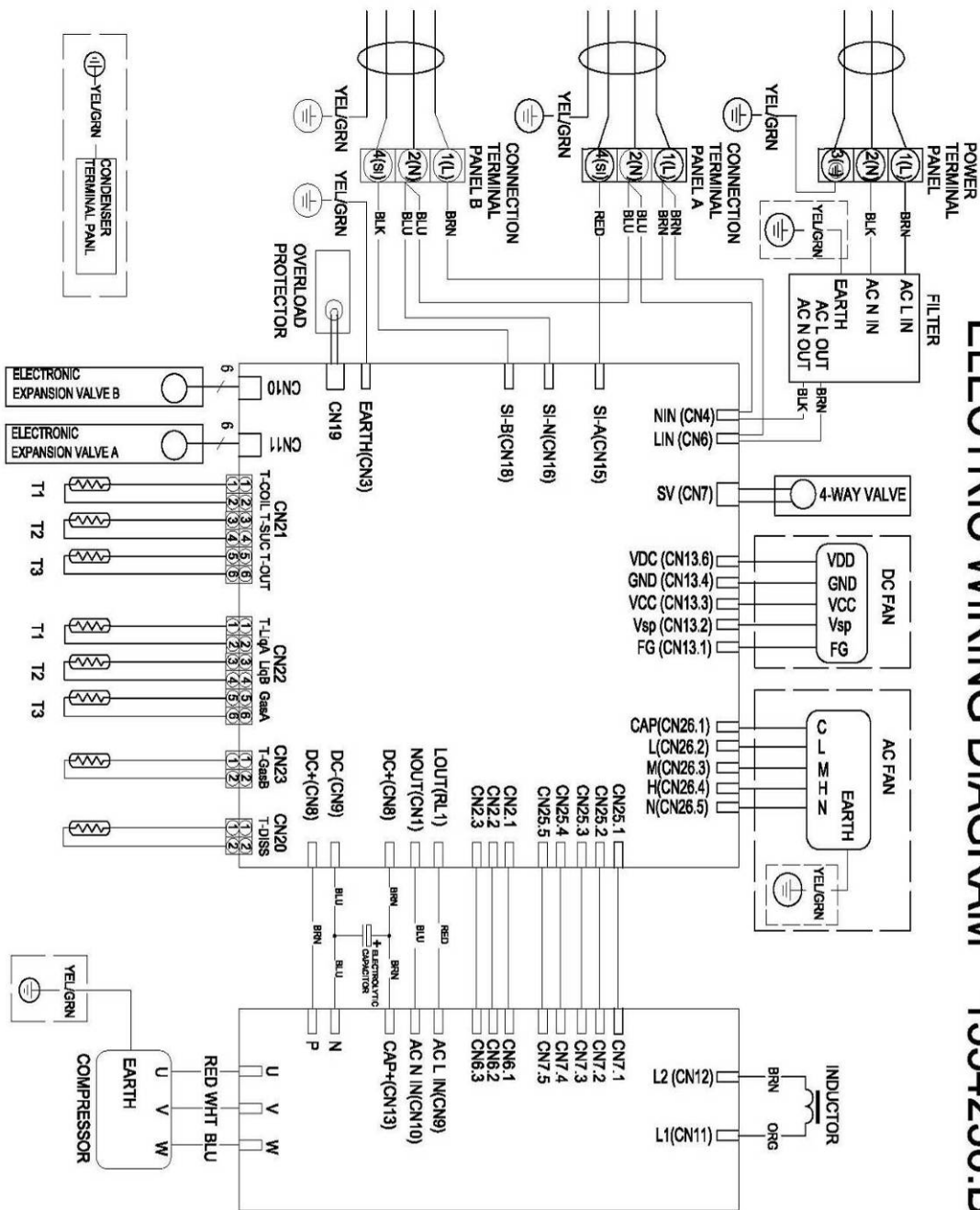
2) SSH-PM184DC



5. ELECTRICAL DATA

OUTDOOR: SRH-PM18DC

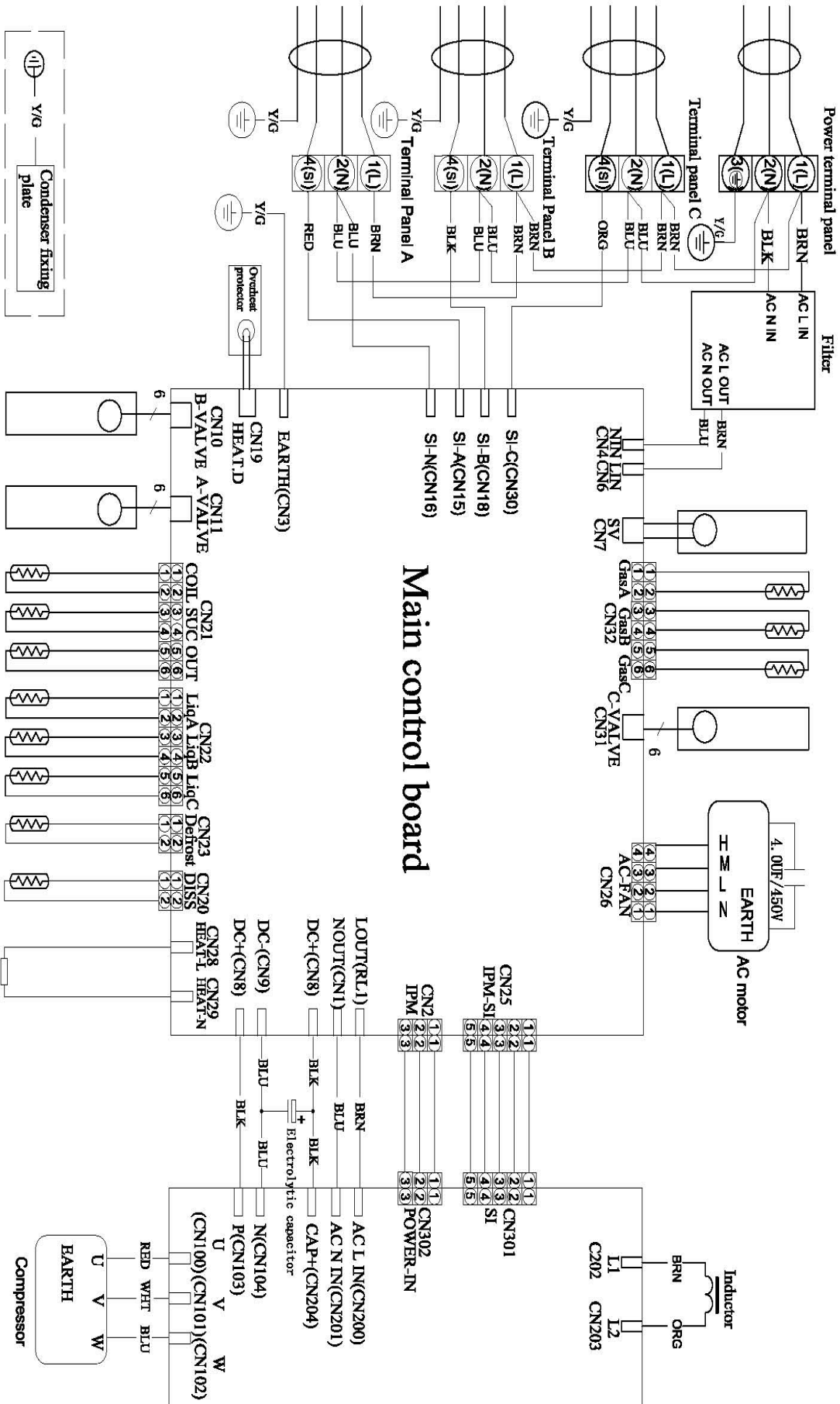
ELECTRIC WIRING DIAGRAM 1354236.B



5. ELECTRICAL DATA

SRH-PM24DC

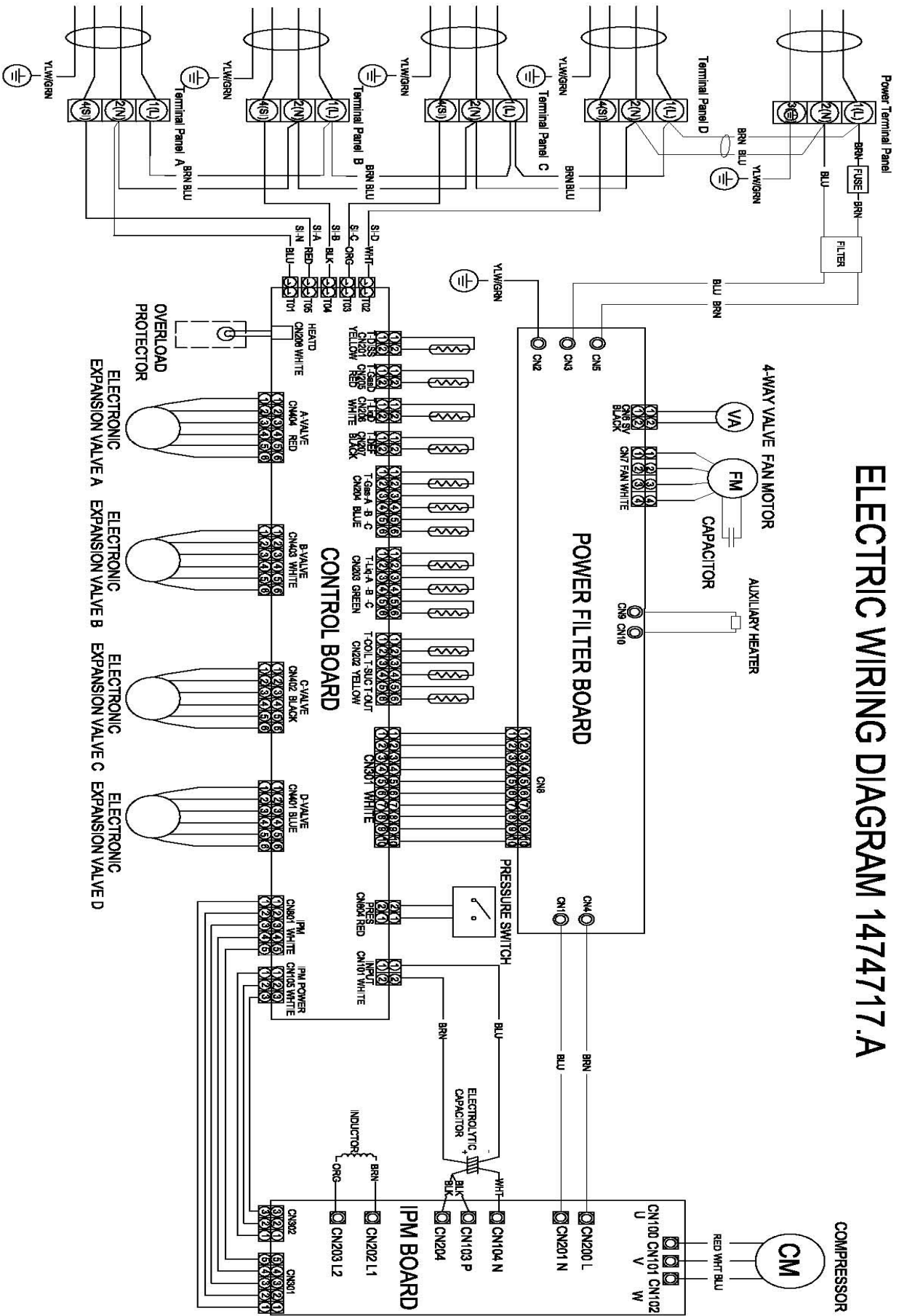
Electric wiring diagram



5. ELECTRICAL DATA

SRH-PM36DC

ELECTRIC WIRING DIAGRAM 1474717.A



5. ELECTRICAL DATA

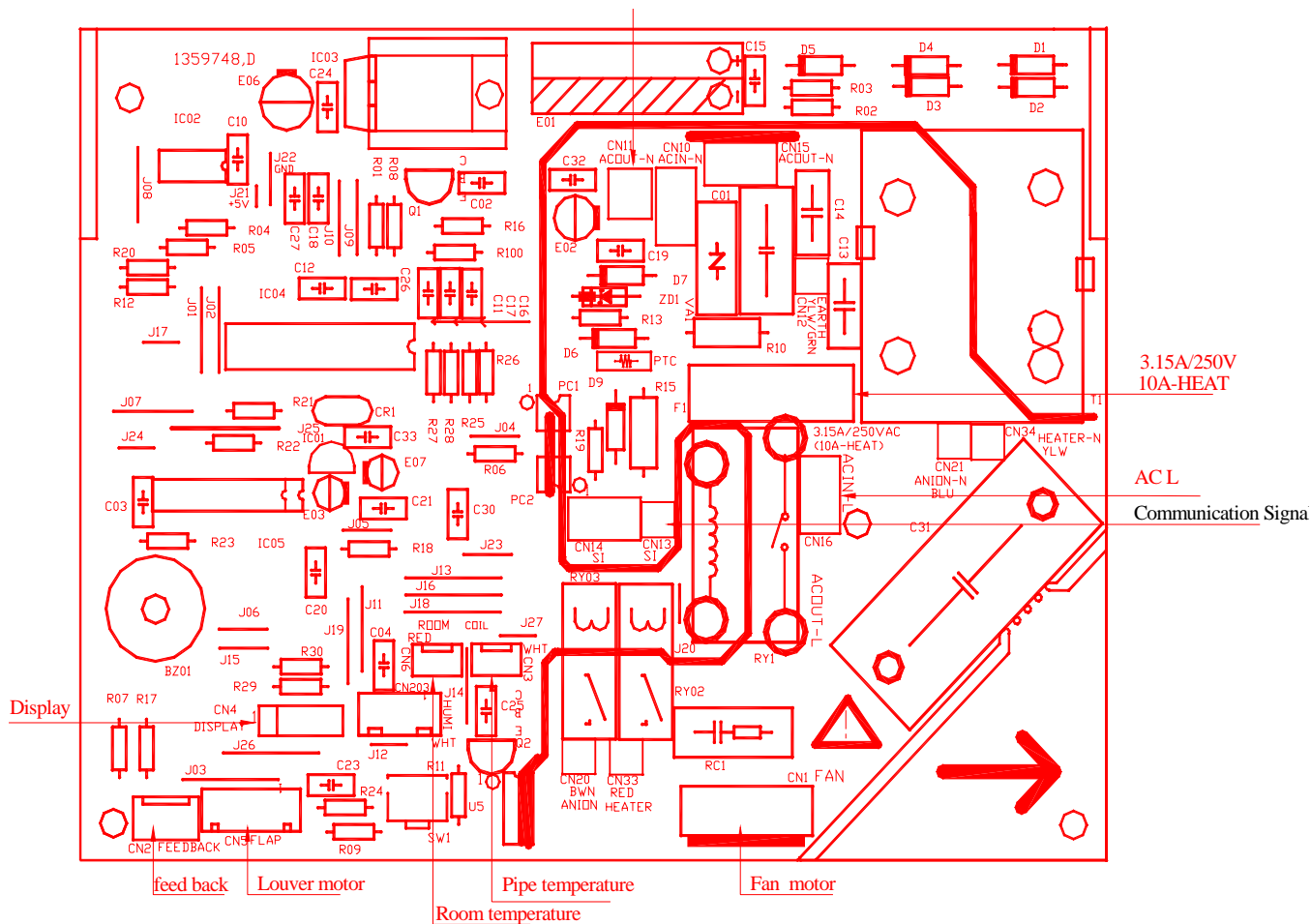
5-2. Electric control

1. Indoor control board for indoor unit

SSH-PM074DC

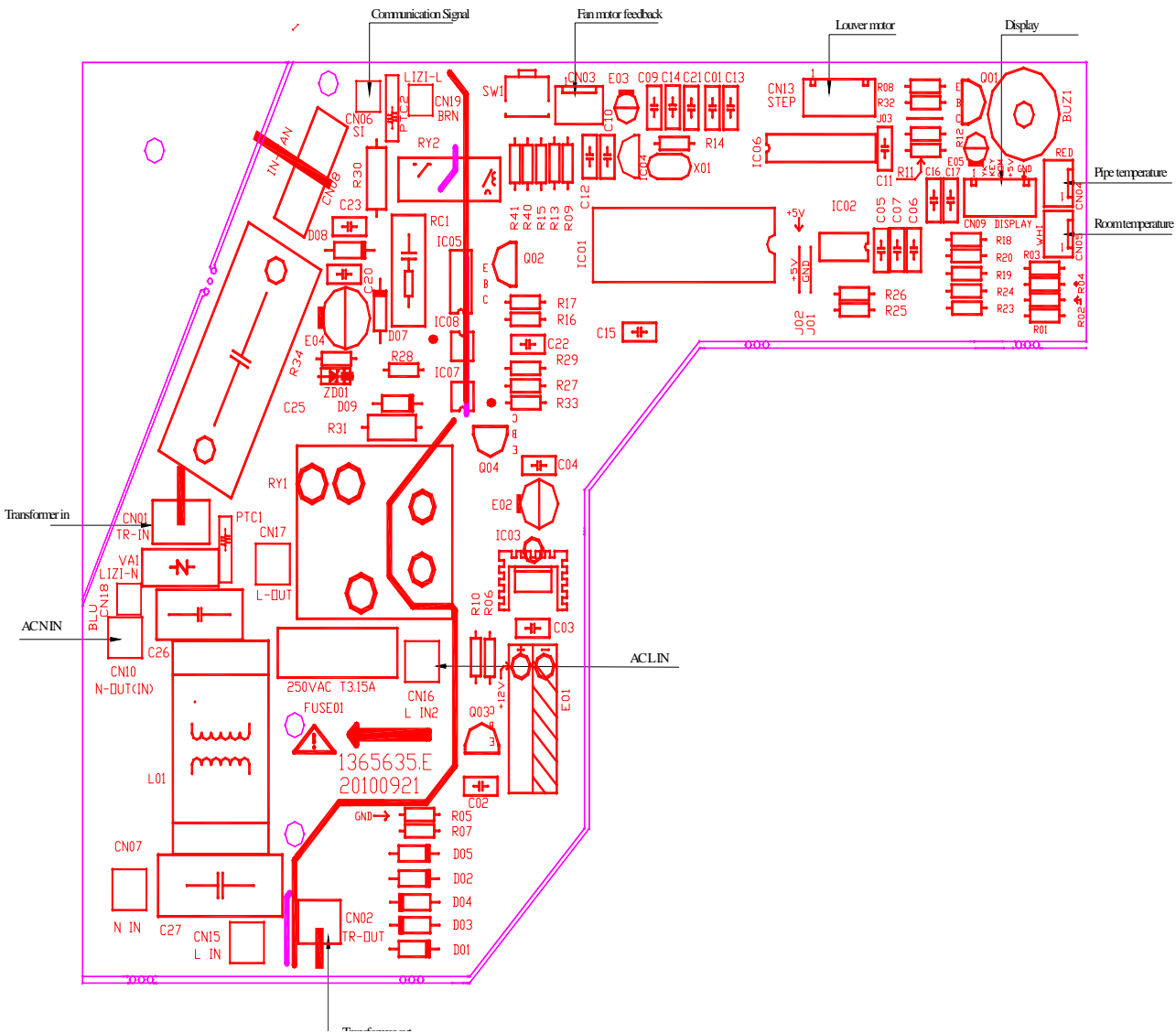
SSH-PM094DC

SSH-PM124DC

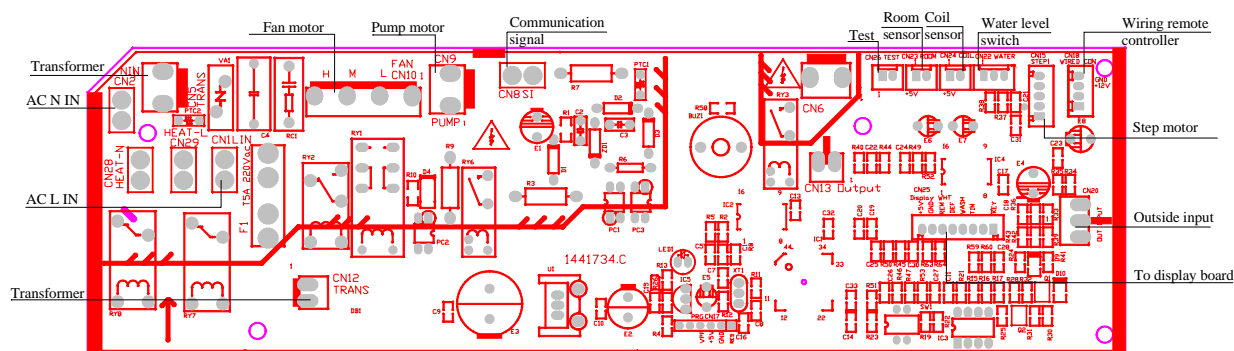
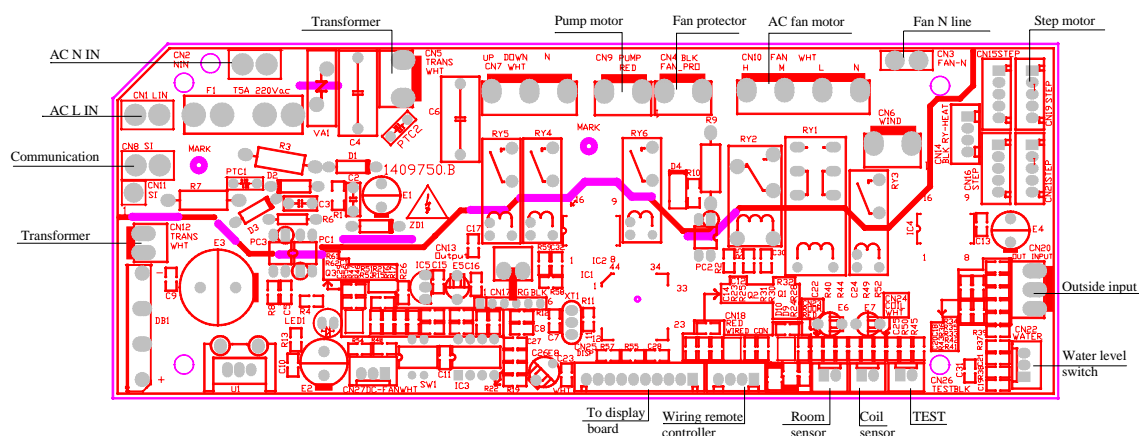


5. ELECTRICAL DATA

SSH-PM184DC



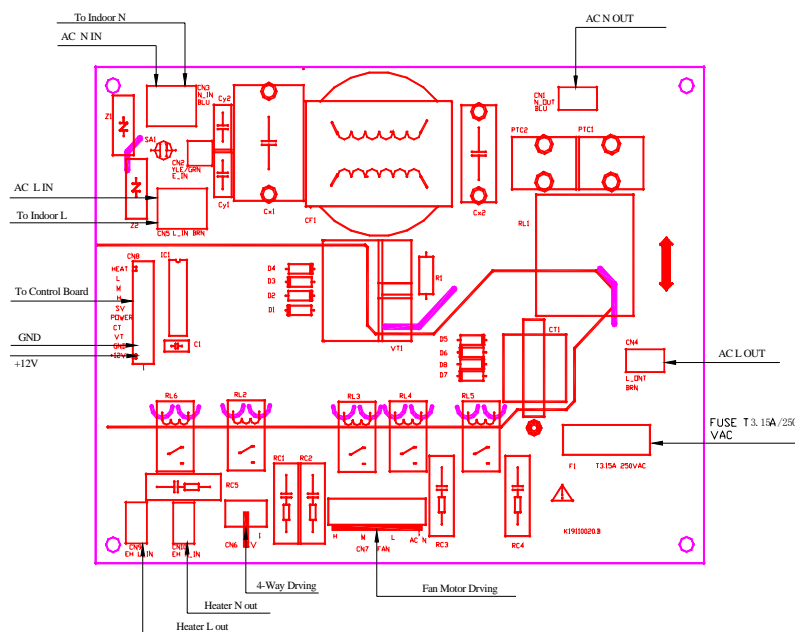
5. ELECTRICAL DATA



2. Control board for outdoor unit

1) FILTER BOARD

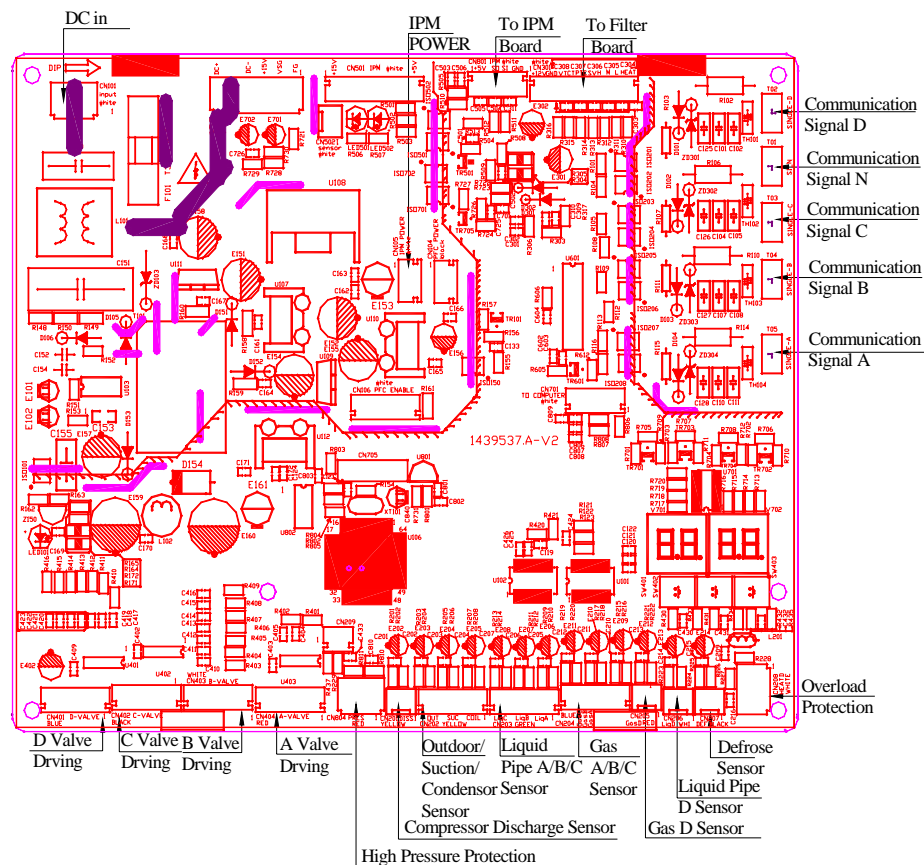
SRH-PM36DC



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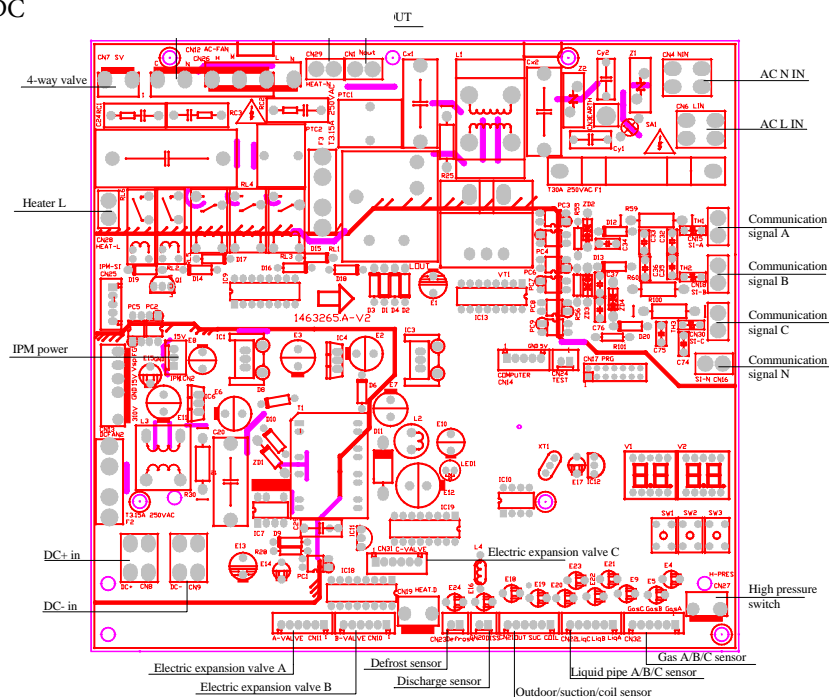
2)CONTROL BOARD

SRH-PM36DC



CONTROL BOARD

SRH-PM24DC

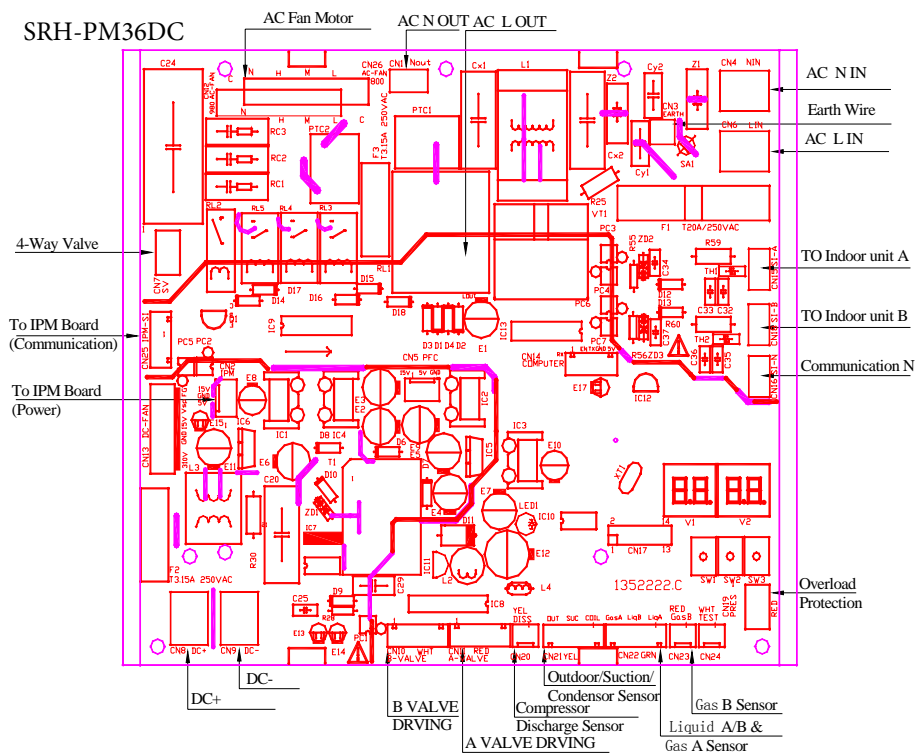


5. ELECTRICAL DATA

CONTROL BOARD

SRH-PM24DC

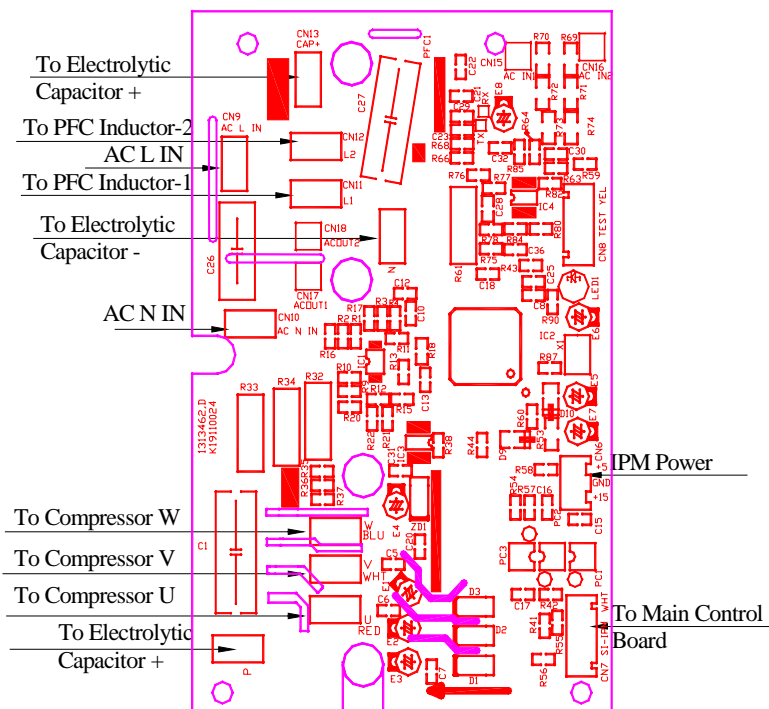
SRH-PM36DC



5. ELECTRICAL DATA

IPM Board

SRH-PM18DC



5. ELECTRICAL DATA

5-3. Sensor parameter

1. THE PARAMETER OF OUTDOOR COMPRESSOR DISCHARGE TEMPERATURE SENSOR:

($R_0=187.25K \pm 6.3\%$; $R_{100}=3.77K \pm 2.5K$; $B0/100=3979K \pm 1\%$)

T [°C]	Rmin [K Ω]	Rnom [K Ω]	Rmax [K Ω]	DR(MIN)%	DR(MAX)%
-30	908.2603	985.5274	1065.1210	-7.84	7.47
-29	855.3955	927.6043	1001.9150	-7.78	7.42
-28	805.9244	873.4324	924.8368	-7.73	5.56
-27	759.6097	822.7471	887.5944	-7.67	7.31
-26	716.2320	775.3041	835.9165	-7.62	7.25
-25	675.5881	730.8775	787.5529	-7.56	7.20
-24	637.4902	689.2583	742.2720	-7.51	7.14
-23	601.7645	650.2533	699.8601	-7.46	7.09
-22	568.2499	613.6835	660.1191	-7.40	7.03
-21	536.7970	579.3832	622.8658	-7.35	6.98
-20	507.2676	547.1989	587.9307	-7.30	6.93
-19	497.5332	516.9882	555.1565	-3.76	6.88
-18	453.4748	488.6192	524.3977	-7.19	6.82
-17	428.9819	461.9693	495.5191	-7.14	6.77
-16	405.9517	436.9251	486.3954	-7.09	10.17
-15	384.2888	413.3808	442.9105	-7.04	6.67
-14	363.9047	391.2386	418.9563	-6.99	6.62
-13	344.7169	370.4072	396.4325	-6.94	6.56
-12	326.6497	350.8019	375.2461	-6.88	6.51
-11	309.6286	332.3441	355.3104	-6.83	6.46
-10	293.5903	314.9620	336.5448	-6.79	6.41
-9	278.4719	298.5822	318.3744	-6.74	6.22
-8	264.2156	283.1464	302.2294	-6.69	6.31
-7	250.7678	268.5936	286.5448	-6.64	6.26
-6	238.0783	254.8686	271.7603	-6.59	6.22
-5	226.1003	241.9200	257.8193	-6.54	6.17
-4	214.7903	229.6997	244.6593	-6.49	6.11
-3	204.1073	218.1630	232.2612	-6.44	6.07
-2	194.0135	207.2681	220.5495	-6.39	6.02
-1	184.4732	196.9759	209.4913	-6.35	5.97
0	175.4533	187.2500	199.0468	-6.30	5.93
1	166.8952	178.0255	189.1529	-6.25	5.88
2	158.8023	169.3067	179.8058	-6.20	5.84
3	151.1467	161.0633	170.9724	-6.16	5.80
4	143.9026	153.2667	162.6216	-6.11	5.75
5	137.0455	145.8905	154.7246	-6.06	5.71
6	130.5528	138.9097	147.2544	-6.02	5.67
7	124.4033	132.3011	140.1856	-5.97	5.62
8	118.5769	126.0429	133.4946	-5.92	5.58
9	113.0550	120.1146	127.1591	-5.88	5.54

5. ELECTRICAL DATA

10	107.8202	114.4973	121.1586	-5.83	5.50
11	102.8560	109.1728	115.4734	-5.79	5.46
12	98.1470	104.1246	110.0855	-5.74	5.41
T [°C]	Rmin [K Ω]	Rnom [K Ω]	Rmax [K Ω]	DR(MIN)%	DR(MAX)%
13	93.6787	99.3367	104.9778	-5.70	5.37
14	89.4378	94.7946	100.1342	-5.65	5.33
15	85.4114	90.4842	95.5398	-5.61	5.29
16	81.5875	86.3926	91.1805	-5.56	5.25
17	77.9551	82.5076	87.0430	-5.52	5.21
18	74.5034	78.8177	83.1150	-5.47	5.17
19	71.2227	75.3122	79.3848	-5.43	5.13
20	68.1036	71.9808	75.8414	-5.39	5.09
21	65.1373	68.8141	72.4746	-5.34	5.05
22	62.3155	65.8032	69.2746	-5.30	5.01
23	59.6306	62.9395	66.2324	-5.26	4.97
24	57.0752	60.2152	63.3395	-5.21	4.93
25	54.6424	57.6227	60.5877	-5.17	4.89
26	52.3258	55.1551	57.9695	-5.13	4.85
27	50.1192	52.8058	55.4778	-5.09	4.82
28	48.0168	50.5684	53.1058	-5.05	4.78
29	46.0133	48.4371	50.8472	-5.00	4.74
30	44.1034	46.4046	48.6960	-4.96	4.71
31	42.2825	44.4711	46.6466	-4.92	4.66
32	40.5458	42.6261	44.6937	-4.88	4.63
33	38.8891	40.8668	42.8323	-4.84	4.59
34	37.3084	39.1890	41.0576	-4.80	4.55
35	35.7998	37.5883	39.3653	-4.76	4.51
36	34.3596	36.0609	37.7511	-4.72	4.48
37	32.9844	34.6030	36.2109	-4.68	4.44
38	31.6710	33.2113	34.7412	-4.64	4.40
39	30.4164	31.8823	33.3383	-4.60	4.37
40	29.2176	30.6130	31.9988	-4.56	4.33
41	28.0718	29.4004	30.7197	-4.52	4.29
42	26.9765	28.2417	29.4979	-4.48	4.26
43	25.9293	27.1342	28.3306	-4.44	4.22
44	24.9277	26.0755	27.2150	-4.40	4.19
45	23.9697	25.0632	26.1488	-4.36	4.15
46	23.0530	24.0950	25.1293	-4.32	4.12
47	22.1757	23.1688	24.1545	-4.29	4.08
48	21.3360	22.2826	23.2221	-4.25	4.05
49	20.5321	21.4345	22.3301	-4.21	4.01
50	19.7623	20.6226	21.4766	-4.17	3.98
51	19.0261	19.8468	20.6612	-4.14	3.94
52	18.3211	19.1040	19.8808	-4.10	3.91
53	17.6458	18.3926	19.1338	-4.06	3.87

5. ELECTRICAL DATA

54	16.9986	17.7113	18.4185	-4.02	3.84
55	16.3784	17.0537	17.7335	-3.96	3.83
56	15.7839	16.4332	17.0774	-3.95	3.77
57	15.2139	15.8338	16.4488	-3.92	3.74
58	14.6673	15.2592	15.8464	-3.88	3.71
59	14.1430	14.7083	15.2690	-3.84	3.67
T [°C]	Rmin [K Ω]	Rnom [K Ω]	Rmax [K Ω]	DR(MIN)%	DR(MAX)%
60	13.6400	14.1799	14.7154	-3.81	3.64
61	13.1573	13.6730	14.1846	-3.77	3.61
62	12.6941	13.1868	13.6756	-3.74	3.57
63	12.2494	12.7202	13.1872	-3.70	3.54
64	11.8224	12.2723	12.7186	-3.67	3.51
65	11.4124	11.8424	12.2690	-3.63	3.48
66	11.0185	11.4295	11.8373	-3.60	3.45
67	10.6401	11.0331	11.4230	-3.56	3.41
68	10.2765	10.6522	11.0251	-3.53	3.38
69	9.9271	10.2863	10.6429	-3.49	3.35
70	9.5912	9.9348	10.2756	-3.46	3.32
71	9.2682	9.5968	9.9231	-3.42	3.29
72	8.9576	9.2720	9.5841	-3.39	3.26
73	8.6589	8.9597	9.2583	-3.36	3.23
74	8.3716	8.6594	8.9451	-3.32	3.19
75	8.0951	8.3705	8.6440	-3.29	3.16
76	7.8290	8.0926	8.3544	-3.26	3.13
77	7.5730	7.8252	8.0758	-3.22	3.10
78	7.3264	7.5679	7.8078	-3.19	3.07
79	7.0891	7.3202	7.5499	-3.16	3.04
80	6.8605	7.0818	7.3018	-3.12	3.01
81	6.6403	6.8522	7.0629	-3.09	2.98
82	6.4282	6.6311	6.8329	-3.06	2.95
83	6.2239	6.4182	6.6115	-3.03	2.92
84	6.0269	6.2131	6.3982	-3.00	2.89
85	5.8371	6.0154	6.1928	-2.96	2.86
86	5.6542	5.8249	5.9949	-2.93	2.84
87	5.4777	5.6413	5.8042	-2.90	2.81
88	5.3076	5.4644	5.6205	-2.87	2.78
89	5.1435	5.2937	5.4433	-2.84	2.75
90	4.9853	5.1292	5.2726	-2.81	2.72
91	4.8326	4.9705	5.1079	-2.77	2.69
92	4.6852	4.8174	4.9492	-2.74	2.66
93	4.5430	4.6697	4.7960	-2.71	2.63
94	4.4058	4.5272	4.6483	-2.68	2.61
95	4.2733	4.3896	4.5058	-2.65	2.58
96	4.1453	4.2568	4.3683	-2.62	2.55
97	4.0218	4.1287	4.2355	-2.59	2.52

5. ELECTRICAL DATA

98	3.9024	4.0049	4.1074	-2.56	2.50
99	3.7872	3.8854	3.9837	-2.53	2.47
100	3.6758	3.7700	3.8643	-2.50	2.44
101	3.5661	3.6585	3.7512	-2.53	2.47
102	3.4601	3.5509	3.6419	-2.56	2.50
103	3.3577	3.4468	3.5362	-2.59	2.53
104	3.2588	3.3463	3.4341	-2.61	2.56
105	3.1632	3.2491	3.3353	-2.64	2.58
106	3.0708	3.1551	3.2398	-2.67	2.61
107	2.9816	3.0643	3.1475	-2.70	2.64
108	2.8953	2.9765	3.0582	-2.73	2.67
109	2.8118	2.8915	2.9717	-2.76	2.70
110	2.7311	2.8093	2.8881	-2.78	2.73
111	2.6531	2.7299	2.8072	-2.81	2.75
112	2.5776	2.6530	2.7289	-2.84	2.78
113	2.5046	2.5785	2.6531	-2.87	2.81
114	2.4340	2.5065	2.5798	-2.89	2.84
115	2.3656	2.4368	2.5087	-2.92	2.87
116	2.2995	2.3693	2.4400	-2.95	2.90
117	2.2354	2.3040	2.3733	-2.98	2.92
118	2.1734	2.2407	2.3088	-3.00	2.95
119	2.1134	2.1795	2.2463	-3.03	2.97
120	2.0553	2.1201	2.1858	-3.06	3.01
121	1.9991	2.0626	2.1271	-3.08	3.03
122	1.9446	2.0070	2.0702	-3.11	3.05
123	1.8918	1.9530	2.0151	-3.13	3.08
124	1.8406	1.9007	1.9617	-3.16	3.11
125	1.7911	1.8500	1.9099	-3.18	3.14
126	1.7430	1.8009	1.8597	-3.22	3.16
127	1.6965	1.7533	1.8110	-3.24	3.19
128	1.6514	1.7071	1.7638	-3.26	3.21
129	1.6076	1.6623	1.7180	-3.29	3.24
130	1.5652	1.6189	1.6736	-3.32	3.27

5. ELECTRICAL DATA

2. THE PARAMETER OF THE OTHER SENSOR IN INDOOR AND OUTDOOR UNIT: ($R_0=15K \pm 2\%$;
 $B0/100=3450K \pm 2\%$)

T [°C]	Rmin [K Ω]	Rnom [K Ω]	Rmax [K Ω]	DR(MIN)%	DR(MAX)%
-30	60.78	64.77	68.99	-6.16	6.12
-29	57.75	61.36	65.16	-5.88	5.83
-28	54.89	58.15	61.58	-5.61	5.57
-27	52.19	55.14	58.23	-5.35	5.31
-26	49.63	52.30	55.08	-5.11	5.05
-25	47.21	49.62	52.13	-4.86	4.81
-24	44.92	47.10	49.37	-4.63	4.60
-23	42.76	44.73	46.78	-4.40	4.38
-22	40.71	42.49	44.34	-4.19	4.17
-21	38.77	40.38	42.05	-3.99	3.97
-20	36.93	38.39	39.90	-3.80	3.78
-19	35.18	36.51	37.87	-3.64	3.59
-18	33.53	34.74	35.97	-3.48	3.42
-17	31.96	33.06	34.17	-3.33	3.25
-16	30.48	31.47	32.49	-3.15	3.14
-15	29.07	29.97	30.89	-3.00	2.98
-14	27.73	28.56	29.39	-2.91	2.82
-13	26.46	27.22	27.98	-2.79	2.72
-12	25.26	25.95	26.64	-2.66	2.59
-11	24.11	24.75	25.38	-2.59	2.48
-10	23.03	23.61	24.19	-2.46	2.40
-9	21.99	22.53	23.06	-2.40	2.30
-8	21.01	21.51	22.00	-2.32	2.23
-7	20.08	20.54	20.99	-2.24	2.14
-6	19.19	19.62	20.04	-2.19	2.10
-5	18.35	18.74	19.14	-2.08	2.09
-4	17.55	17.92	18.29	-2.06	2.02
-3	16.78	17.13	17.48	-2.04	2.00
-2	16.06	16.38	16.71	-1.95	1.97
-1	15.36	15.67	15.98	-1.98	1.94
0	14.70	15.00	15.29	-2.00	1.90
1	14.08	14.36	14.64	-1.95	1.91
2	13.48	13.75	14.02	-1.96	1.93
3	12.91	13.17	13.43	-1.97	1.94
4	12.36	12.62	12.87	-2.06	1.94
5	11.85	12.09	12.34	-1.99	2.03
6	11.35	11.59	11.83	-2.07	2.03
7	10.88	11.11	11.35	-2.07	2.11
8	10.43	10.66	10.89	-2.16	2.11
9	9.999	10.230	10.450	-2.26	2.11
10	9.590	9.816	10.040	-2.30	2.23

5. ELECTRICAL DATA

11	9.199	9.422	9.647	-2.37	2.33
12	8.826	9.047	9.269	-2.44	2.40
T [°C]	Rmin [K Ω]	Rnom [K Ω]	Rmax [K Ω]	DR(MIN)	DR(MAX)
13	8.470	8.689	8.910	-2.52	2.48
14	8.129	8.347	8.567	-2.61	2.57
15	7.804	8.021	8.240	-2.71	2.66
16	7.493	7.709	7.928	-2.80	2.76
17	7.196	7.412	7.630	-2.91	2.86
18	6.912	7.127	7.346	-3.02	2.98
19	6.640	6.855	7.074	-3.14	3.10
20	6.381	6.595	6.815	-3.24	3.23
21	6.132	6.347	6.567	-3.39	3.35
22	5.894	6.109	6.330	-3.52	3.49
23	5.667	5.882	6.103	-3.66	3.62
24	5.449	5.664	5.886	-3.80	3.77
25	5.240	5.456	5.678	-3.96	3.91
26	5.048	5.260	5.478	-4.03	3.98
27	4.864	5.072	5.286	-4.10	4.05
28	4.687	4.891	5.101	-4.17	4.12
29	4.517	4.717	4.924	-4.24	4.20
30	4.355	4.550	4.753	-4.29	4.27
31	4.198	4.390	4.589	-4.37	4.34
32	4.048	4.236	4.431	-4.44	4.40
33	3.904	4.089	4.280	-4.52	4.46
34	3.766	3.946	4.134	-4.56	4.55
35	3.663	3.810	3.994	-3.86	4.61
36	3.506	3.679	3.859	-4.70	4.66
37	3.383	3.552	3.729	-4.76	4.75
38	3.265	3.431	3.604	-4.84	4.80
39	3.152	3.314	3.484	-4.89	4.88
40	3.043	3.202	3.368	-4.97	4.93
41	2.938	3.094	3.257	-5.04	5.00
42	2.838	2.990	3.149	-5.08	5.05
43	2.741	2.890	3.046	-5.16	5.12
44	2.648	2.793	2.946	-5.19	5.19
45	2.558	2.701	2.850	-5.29	5.23
46	2.472	2.611	2.758	-5.32	5.33
47	2.389	2.525	2.669	-5.39	5.40
48	2.309	2.443	2.583	-5.49	5.42
49	2.232	2.363	2.500	-5.54	5.48
50	2.158	2.286	2.421	-5.60	5.58
51	2.087	2.212	2.344	-5.65	5.63
52	2.018	2.140	2.269	-5.70	5.69
53	1.952	2.072	2.198	-5.79	5.73

5. ELECTRICAL DATA

54	1.888	2.005	2.129	-5.84	5.82
55	1.827	1.941	2.062	-5.87	5.87
56	1.767	1.880	1.998	-6.01	5.91
57	1.710	1.820	1.936	-6.04	5.99
58	1.655	1.763	1.876	-6.13	6.02
59	1.602	1.707	1.818	-6.15	6.11
T [°C]	Rmin [K Ω]	Rnom [K Ω]	Rmax [K Ω]	DR(MIN)	DR(MAX)
60	1.551	1.654	1.762	-6.23	6.13
61	1.502	1.602	1.709	-6.24	6.26
62	1.452	1.553	1.657	-6.50	6.28
63	1.409	1.505	1.606	-6.38	6.29
64	1.364	1.458	1.558	-6.45	6.42
65	1.322	1.413	1.511	-6.44	6.49
66	1.280	1.370	1.466	-6.57	6.55
67	1.241	1.328	1.422	-6.55	6.61
68	1.202	1.288	1.379	-6.68	6.60
69	1.165	1.249	1.339	-6.73	6.72
70	1.129	1.211	1.299	-6.77	6.77
71	1.095	1.175	1.261	-6.81	6.82
72	1.061	1.140	1.224	-6.93	6.86
73	1.029	1.106	1.188	-6.96	6.90
74	0.9977	1.073	1.153	-7.02	6.94
75	0.9676	1.041	1.120	-7.05	7.05
76	0.9385	1.011	1.088	-7.17	7.08
77	0.9104	0.9810	1.056	-7.20	7.10
78	0.8833	0.9523	1.026	-7.25	7.18
79	0.8570	0.9246	0.9971	-7.31	7.27
80	0.8316	0.8977	0.9687	-7.36	7.33
81	0.8071	0.8717	0.9412	-7.41	7.38
82	0.7834	0.8466	0.9146	-7.47	7.43
83	0.7604	0.8223	0.8888	-7.53	7.48
84	0.7382	0.7987	0.8639	-7.57	7.55
85	0.7167	0.7759	0.8397	-7.63	7.60
86	0.6958	0.7537	0.8161	-7.68	7.65
87	0.6755	0.7322	0.7933	-7.74	7.70
88	0.6560	0.7114	0.7712	-7.79	7.75
89	0.6371	0.6913	0.7498	-7.84	7.80
90	0.6188	0.6718	0.7291	-7.89	7.86
91	0.6011	0.6530	0.7051	-7.95	7.39
92	0.5840	0.6348	0.6897	-8.00	7.96
93	0.5674	0.6171	0.6709	-8.05	8.02
94	0.5514	0.6000	0.6527	-8.10	8.07
95	0.5359	0.5835	0.6350	-8.16	8.11
96	0.5209	0.5675	0.6179	-8.21	8.16

5. ELECTRICAL DATA

97	0.5064	0.5519	0.6014	-8.24	8.23
98	0.4923	0.5369	0.5853	-8.31	8.27
99	0.4787	0.5224	0.5698	-8.37	8.32
100	0.4655	0.5083	0.5547	-8.42	8.36
101	0.4528	0.4946	0.5401	-8.45	8.42
102	0.4404	0.4814	0.5259	-8.52	8.46
103	0.4284	0.4685	0.5121	-8.56	8.51
104	0.4168	0.4561	0.4988	-8.62	8.56
105	0.4056	0.4440	0.4859	-8.65	8.62
T [°C]	Rmin [K Ω]	Rnom [K Ω]	Rmax [K Ω]	DR(MIN)	DR(MAX)
106	0.3947	0.4323	0.4733	-8.70	8.66
107	0.3841	0.4210	0.4611	-8.76	8.70
108	0.3739	0.4100	0.4493	-8.80	8.75
109	0.3640	0.3993	0.4379	-8.84	8.81
110	0.3544	0.3890	0.4267	-8.89	8.84
111	0.3450	0.3789	0.4159	-8.95	8.90
112	0.3360	0.3692	0.4055	-8.99	8.95
113	0.3272	0.3597	0.3953	-9.04	9.01
114	0.3187	0.3505	0.3854	-9.07	9.06
115	0.3104	0.3416	0.3758	-9.13	9.10
116	0.3024	0.3330	0.3665	-9.19	9.14
117	0.2947	0.3246	0.3574	-9.21	9.18
118	0.2871	0.3164	0.3468	-9.26	8.77
119	0.2798	0.3085	0.3401	-9.30	9.29
120	0.2727	0.3008	0.33	-9.34	9.34

6. CONTROL MODEL

6-1 Indoor control mode SSH-PM074DC

SSH-PM094DC

SSH-PM124DC

SSH-PM184DC

1. Major general technical parameters

- 1 Conditionings for operation: Ambient temperatures: (-15 - +45 °C), relative humidity (45 - 85%).
- 2 Remote receiver distance: 8 m.
- 3 Remote receiver angle: Less than 80 degrees.
- 4 Temperature control accuracy: $\pm 1^{\circ}\text{C}$.
- 5 Time error: Less than 1%.
- 6 The power supply for the air conditioner is a.c 220V~240V, 50Hz, with its fluctuation in the range of (176V – 264 V).

2. Functions of the controller

. Control function

3.1 Emergency switch

1. When the machine is turned OFF, by press and hold the emergency switch for 5 seconds, with 3 beeps , the indoor unit would turn to emergency run. In such station, machine would be forced to turn to cooling operation with the indoor fan speed being set at high speed, the flaps sweeping and the air conditioner's operation is irrelevant with room temperatures.

2. If a remote signal has been received during the emergency run, the machine will operate upon the command of such a remote signal.

3.2 Operator-machine communication

The air conditioner has a thermal sensor to detect room temperatures. Some remote controller is equipped with a thermal sensor (Such remote controller has the function of man-machine communication. For details, refer to the section for the remote controller). In addition, there is a thermal sensor at the indoor air inlet. In the case where the remote controller is equipped with a thermal sensor, the default setting for room temperatures is subject to the detection by the remote controller. The remote controller detects the room temperature once every 20 seconds, and automatically transmits a signal at an interval of 3 minutes or when a change in the room temperature is detected. If the indoor control unit has not received a remote signal for more than 10 minutes, the control function will be automatically switched over to the thermal sensor on the indoor unit.

3.3 Timer function

1. Timer on: When set to start in a time by the remote controller, the air conditioner starts in the timer on condition. When the set time is up, the air conditioner will turn on and operates in the preset conditions after receiving a signal from the remote controller. If the air conditioner has not received a signal from the remote controller when the set time is up, it will automatically start and operate in the preset conditions.

2. Timer off: When set to stop in a set time by the remote controller, the air conditioner will start in the timer off condition. When the set time is up, the air conditioner will turn off after receiving a signal from the remote controller. If the air conditioner has not received a signal from the remote controller when the set time is up, it will turn off automatically.

6. CONTROL MODEL

3. Neither the turning on nor turning off operation will cancel the timer function (Some remote controller has a simple one-hour timer off function and excludes this operation).。

3.4 Sleep

1. In the heating, cooling or dehumidifying mode, press the "Sleep" button on the remote controller to start or cancel the sleep function in turn, and at the same time the sleep icon on the display screen will be on or off accordingly.
2. In the heating mode, the set temperature will decrease automatically after the sleep function is started.
3. In the cooling mode, the set temperature will rise automatically after the sleep function is started.
4. In default, the setting is to cancel the sleep function. Turning off the unit will also cancel the sleep function.

3.5 High efficient run function

In Cool, Dehumidification, Fan mode, press the "HIGH POWER " to enter the refrigeration mode, set the temperature automatically adjust to 18℃; the Fan speed is powerful speed; frequency of high frequency operation.

In the heating mode, powerful function is invalid.

3.6 mute function (only for H1 wireless remote controller)

In the indoor machine operation mode, You may turn on mute function and turn off mute function by mute key, The air conditioner will run by mute fan speed in mute mode

3.7 prevent cooling wind mode

In the heating-run, to prevent the indoor fan from blowing cold air, the indoor fan will stop or run slowly until the coil is warmth.

3.8 blow waste heating and waste cooling function

The heating mode, remote shutdown, such as indoor heat exchanger temperature is higher, the wind blowing out opportunities continue to run the waste heat, the wind guiding vane is adjusted to the horizontal position.

Cool and dehumidification mode after the compressor close, indoor machine will continue to set the speed of operation for a period of time.

Fan mode, compressor is shut off, the indoor fan immediately stop

3.9 automatically model

This model does not automatically model function, emergency button cannot set the automatic mode of operation, can use the emergency button shutdown, remote setting the automatic mode of indoor machine with remote signal.

6. CONTROL MODEL

3.10 dehumidifying mode:

Remote control setting for dehumidifying mode, mandatory for low speed operation of indoor machine, according to HIGH POWER bond or strong bond also maintain a low wind speed, the outdoor machine with cooling mode operation.

3.11 wireless remote controller show fault :

In the indoor machine operation mode, if the product is faulty, continuous by remote control" sleep" button 4 times, indoor display screen will display the fault code, no fault will show "00".

3.12 Mode interfere

For the reason that all indoor units use one outdoor unit, outdoor unit can only run with same mode(cooling or heating), so, when the mode you set is different from the mode that outdoor is running with, mode interfere occurs. Following shows the mode interfere scene.

	cooling	dry	heating	fan	
cooling	✓	✓	×	✓	✓ --- normal
dry	✓	✓	×	✓	×
heating	×	×	✓	×	---
fan	✓	✓	×	✓	---

Outdoor unit always run with the mode of first indoor unit that turned on. when the setting mode of following indoor unit is interfered with it, 3 beeps would be heard, and the indoor unit interfered with the normal running units would turn off automatically.

6. CONTROL MODEL

- 6-2 Outdoor mode control SRH-PM18DC
SRH-PM24DC
SRH-PM36DC

Summarization

This direction applies to multi-type and DC variable frequency air conditioner

Performance index

1. Voltage scale: 176V~264V, 50Hz
2. Storage temperature scale: -40°C~85°C
3. Storage humidity scale: PH30%~PH95%
4. Working temperature:-20°C~85°C
5. accuracy for temperature control: $\pm 0.5^{\circ}\text{C}$

3. Control function

Cooling Anti-freeze Protection

To prevent freezing caused by too low temperature of indoor evaporator, the air conditioner will implement real-time detection over the indoor coil temperature. If the indoor coil temperature is too low, the compressor will be prohibited from increasing the frequency or decrease the frequency even shut down automatically

Heating Overload Protection

To prevent system overload caused by excessive pressure in heating operation, the machine will implement real-time detection over the indoor fan-coil temperature:

If the indoor coil temperature grows higher, the compressor will be prohibited from increasing the frequency; If the temperature continues to rise, the compressor will decrease the frequency; If the indoor coil temperature is too high, the compressor will stop working immediately. The compressor then will reboot after the indoor coil temperature reduces.

Cooling Overload Protection

To prevent system overload due to excessive pressure during cooling operation, the machine will implement real-time detection over the outdoor condenser coil temperature:

6. CONTROL MODEL

If the outdoor coil temperature grows higher, the compressor will be prohibited from increasing the frequency; If the temperature continues to rise, the compressor will decrease the frequency; If the outdoor fan-coil temperature is too high, then the compressor will stop working immediately. The compressor will reboot after the outdoor coil temperature reduces.

Discharge Temperature Protection

To prevent working conditions of compressor from deteriorating due to high discharge temperature, the machine will implement real-time detection over the discharge temperature.

If the discharge temperature grows higher, the compressor will be prohibited from increasing the frequency; if the temperature continues to rise, the compressor will decrease the frequency automatically; if the discharge temperature is too high, the compressor will stop working immediately. The compressor will then reboot when the discharge temperature returns to normal condition.

Oil-return Control

When the compressor continues to operate at low frequency, there will be an oil return. The compressor increases the frequency, and thus to return the oil in refrigerate system to the compressor.

Operation Mode

1 Mode Categories

Air conditioning mode is the operation mode set by users through remote controller, four modes are available: cooling, heating, dehumidification, as well as fan mode.

2 Mode conflict

The operating mode of outdoor unit is decided by the operating mode of the indoor unit firstly booted. Indoor unit subsequently booted will firstly determine whether it's own mode is conflict with the outdoor mode. If so, the indoor unit will automatically shut down after three beeps; If there is no conflict, the indoor unit will boot normally. The relationship of mode conflict is as follows:

Driven choice Active mode	Cooling	Dehumidification	Heating	fan
Cooling	√	√	×	√
Dehumidification	√	√	×	√
Heating	×	×	√	×
fan	√	√	×	√

6. CONTROL MODEL

√———Mode conflict will not happen

×———Mode conflict will happen

Outdoor four-way Valve Control

Four-way valve of the outdoor machine shuts down when cooling but starts when heating. The operation of heating defrosting refers to defrosting operation and, when the heating remote shutdown, the four-way valve disconnects in 50s when the compressor stops working.

Start-up Protection:

To prevent compressor from restart frequently in the condition that system pressure has not been completely balanced, it can't be restarted within 3 minutes.

Pressure Protection:

Pressure switch is normally kept open. When the pressure grows too high, the pressure switch will close and soft will enter pressure protection control. soft will automatically decrease the frequency. If the pressure is still unable to return to normal condition after decreasing frequency, compressor will stop and report the fault code of pressure protection.

7.TROUBLE SHOOTING

Note:

If free match products produced before May 2011, the unit will display the old error code in the below;

If free match products produced after May 2011, the unit will display the new error code in the below.

1. New error code and old error code table:

Outdoor new error code	Outdoor old error cold
1	11
2	9
3	24
4	
5	25、26、27、28
7	
13	8
14	32
16	31
17	7
18	
19	6
22	10
23	12
24	13
25	14
26	15
27	16
28	17
29	18
30	19
41	20
42	21
45	30
46	5
47	23

Indoor new error code	Indoor old error code
81	33
83	34
64	36
51	37
73	38
72	39
85	49
55	50

7.TROUBLE SHOOTING

Note: The following error codes are all new error code.

2. Outdoor error code

When the failure happens in the indoor unit or the outdoor unit, after the compressor turns off ,the outdoor control board will display the following error code:

sheet 1 outdoor error code

error code	error description	the root cause may be one of the reason	how to deal with
1	Outdoor ambient temperature sensor fault	1.The outdoor ambient temperature sensor connect loose; 2.The outdoor ambient temperature sensor is failure; 3.The sampling circuit is failure	1.Reconnect the outdoor ambient temperature sensor; 2.Replace the outdoor ambient temperature sensor components; 3.Replace the outdoor control board components.
2	Outdoor coil temperature sensor fault	1.The outdoor coil temperature sensor connect loose; 2.The outdoor coil temperature sensor is failure; 3.The sampling circuit is failure	1.Reconnect the outdoor coil temperature sensor; 2.Replace the outdoor coil temperature sensor components; 3.Replace the outdoor control board components.
3	The unit over-current turn off fault	1.Electrical board current sampling circuit is failure; 2.The current is over high because of the supply voltage is too low 3.The on-off compressor is blocked 4. Overload in cooling mode 5.Overload in heating mode	1. Replace the electrical board components; 2. Normally protection 3. Replace the compressor 4. Please see the Note 3 5. Please see the Note 4
4	EE data fault	1.EE components is failure; 2.EE components control circuit failure; 3.EE components insert incorrect	1.Replace the EE components; 2.Replace the outdoor control board components; 3.Reassembly the EE components.
5	cooling freezing protection(the indoor coil temperature is too low) or heating overload(indoor coil temperature is too high)	1.The indoor unit can not blow air normally; 2.The room temperature is too low in cooling mode or the room temperature is too high in heating; 3.The filter is dirty; 4.The duct resistance of the duct unit is too high 5.The setting fan speed is too low 6. The indoor unit has been installed without standard	1.Check the indoor fan, indoor fan motor and evaporator whether normally; 2. Normally protection 3.Clean the filter; 4.Check the volume control valve, duct length etc; 5.Set the speed with high speed; 6.Reinstall the indoor unit refer to the user manual to change the distance between the indoor unit and the wall or ceiling.
7	The communication fault between the indoor unit and outdoor unit	1.The connection cable connect wrong between the indoor unit and outdoor unit; 2.The communication cable connect loose; 3.The communication cable is fault; 4.The indoor control board is fault; 5.The outdoor control board is fault; 6.Communication circuit fuse open; 7.The specification of communication cable is incorrect.	1.Reconnect the connection cable refer to the wiring diagram; 2.Reconnect the communication cable; 3.Replace the communication cable; 4.Replace the indoor control board; 5.Replace the outdoor control board; 6.Check the communication circuit, adjust the DIP switch and the short-circuit fuse 7.Choose suitable communication cable refer to the user manual

7.TROUBLE SHOOTING

13	the compressor overload protector operate	<ol style="list-style-type: none"> 1. The wiring of the overload protector connect loose 2. The overload protector is failure 3. The refrigerant is not enough; 4. The installation pipe is too long than normal, but not add the enough refrigerant; 5. The expansion valve is failure; 6. The outdoor control board is failure 	<ol style="list-style-type: none"> 1. Reconnect the wiring of the overload protector; 2. Replace the overload protector; 3. Check the welding point of the unit to confirm whether it is leakage, and then recharge the refrigerant; 4. Add the refrigerant; 5. Replace expansion valve; 6. Replace the outdoor control board.
14	the high pressure switch operate or the unit turn off for high pressure protection	<ol style="list-style-type: none"> 1.The wiring of the high pressure protector connect loose; 2.The high pressure protector is failure; 3.The outdoor control board is abnormal; 4. Overload in cooling; 5. Overload in heating. 	<ol style="list-style-type: none"> 1.Reconnect the wiring the high pressure protector; 2. Replace the high pressure protector; 3. Replace the outdoor control board; 4. Please refer to the Note 3; 5. Please refer to the Note 4.
16	overload protection in cooling mode	System overload	Please refer to the Note 3.
17	the discharge temperature sensor fault	<ol style="list-style-type: none"> 1.The wiring of the discharge temperature sensor connect loose; 2.The discharge temperature sensor is failure; 3.The sampling circuit is abnormal 	<ol style="list-style-type: none"> 1.Reconnect the wiring of the discharge temperature sensor; 2.Replace the discharge temperature sensor; 3.Replace the outdoor control board.
18	AC voltage is abnormal	<ol style="list-style-type: none"> 1.The AC voltage>275V or <160V. 2.The AC voltage of sampling circuit on the drive board is abnormally 	<ol style="list-style-type: none"> 1. Normally protection, please check the supply power; 2. Replace the drive board.
19	the suction temperature sensor fault	<ol style="list-style-type: none"> 1.The wiring of the suction temperature sensor connect loose; 2. The suction temperature sensor is failure; 3. The sampling circuit is abnormally 	<ol style="list-style-type: none"> 1.Reconnect the wiring of the suction temperature sensor; 2.Replace the suction temperature sensor; 3.Replace the outdoor control board.
22	the defrosting sensor fault	<ol style="list-style-type: none"> 1.The wiring of the defrosting sensor connect loose; 2.The defrosting sensor is failure; 3.The sampling circuit is abnormally 	<ol style="list-style-type: none"> 1. Reconnect the wiring of the defrosting sensor; 2. Replace the defrosting sensor; 3. Replace the outdoor control board.
23	the sensor for the expansion valve A(thin tube) fault	<ol style="list-style-type: none"> 1. The wiring of the sensor for the expansion valve A(thin tube) connect loose; 2.The sensor for the expansion A(thin tube) is failure; 3. The sampling circuit is abnormally 	<ol style="list-style-type: none"> 1. Reconnect the wiring of the sensor for the expansion valve A(thin tube); 2. Replace the sensor for the expansion valve A(thin tube); 3. Replace the outdoor control board.
24	the sensor for the expansion valve B(thin tube) fault	<ol style="list-style-type: none"> 1. The wiring of the sensor for the expansion valve B (thin tube) connect loose; 2.The sensor for the expansion valve B(thin tube) is failure; 3.The sampling circuit is abnormally 	<ol style="list-style-type: none"> 1.Reconnect the wiring of the sensor for the expansion valve B(thin tube); 2.Replace the sensor for the expansion valve B(thin tube); 3. Replace the outdoor control board.
25	the sensor of the expansion valve C (thin tube) fault	<ol style="list-style-type: none"> 1. The wiring of the sensor for the expansion valve C(thin tube) connect loose; 2.The sensor of the expansion valve C (thin tube) is failure; 3.The sampling circuit is abnormally 	<ol style="list-style-type: none"> 1. Reconnect the wiring of the sensor for the expansion valve C(thin tube); 2. Replace the sensor for the expansion valve C(thin tube); 3. Replace the outdoor control board.
26	the sensor of the expansion valve D (thin tube)	<ol style="list-style-type: none"> 1.The wiring of the sensor for the expansion valve D(thin tube) connect loose; 2.The sensor of the expansion valve D (thin 	<ol style="list-style-type: none"> 1. Reconnect the wiring of the sensor for the expansion valve D(thin tube); 2. Replace the sensor for the

7.TROUBLE SHOOTING

	fault	tube) is failure; 3.The sampling circuit is abnormally	expansion valve D(thin tube); 3. Replace the outdoor control board.
27	the sensor of the expansion valve A (thick tube) fault	1. The wiring of the sensor for the expansion valve A(thick tube) connect loose; 2.The sensor of the expansion valve A (thick tube) is failure; 3.The sampling circuit is abnormally	1. Reconnect the wiring of the sensor for the expansion valve A(thick tube); 2. Replace the sensor for the expansion valve A(thick tube); 3. Replace the outdoor control board.
28	the sensor of the expansion valve B (thick tube) fault	1. The wiring of the sensor for the expansion valve B(thick tube) connect loose; 2.The sensor of the expansion valve B (thick tube) is failure; 3. The sampling circuit is abnormally	1. Reconnect the wiring of the sensor for the expansion valve B(thick tube); 2. Replace the sensor for the expansion valve B(thick tube); 3. Replace the outdoor control board.
29	the sensor of the expansion valve C (thick tube) fault	1. The wiring of the sensor for the expansion valve C(thick tube) connect loose; 2.The sensor of the expansion valve C (thick tube) is failure; 3.The sampling circuit is abnormally	1. Reconnect the wiring of the sensor for the expansion valve C(thick tube); 2. Replace the sensor for the expansion valve C(thick tube); 3.Replace the outdoor control board.
30	the sensor of the expansion valve D (thick tube) fault	1. The wiring of the sensor for the expansion valve D(thick tube) connect loose; 2.The sensor of the expansion valve D (thick tube) is failure; 3.The sampling circuit is abnormally	1. Reconnect the wiring of the sensor for the expansion valve D(thick tube); 2. Replace the sensor for the expansion valve D(thick tube); 3. Replace the outdoor control board components.
41	the current sensor fault	1.The wiring of the current sensor connect wrong or loose; 2.The current sensor is failure; 3. The sampling circuit of the current sensor is failure.	1.Reconnect the wiring of the current sensor; 2.Replace the current sensor; 3.Replace the outdoor control board.
42	the voltage sensor fault	1.The wiring of the voltage sensor connect wrong or loose; 2. The voltage sensor is failure; 3. The sampling circuit of the voltage sensor is failure.	1. Reconnect the wiring of the current sensor; 2. Replace the voltage sensor; 3. Replace the outdoor control board.
45	the drive fault	1.The wiring of the drive board connect loose; 2. The wiring of the drive board connect wrong; 3.The supply power is abnormal; 4. The drive board is failure. 5.The connection cable of the compressor connect loose; 6.The connection cable of the compressor connect wrong. 7.The compressor is failure;	1.Reconnect the wiring of the drive board; 2.Reconnect the wiring of the drive board; 3.Normally protection; 4.Replace the drive board. 5.Reconnect the wiring of the compressor; 6.Reconnect the wiring of the compressor refer to the outdoor wiring diagram, please note the U port of the drive board should connect with RED color cable. The V port of the drive board should connect with White color cable, the W port of the drive board should connect with BLUE color cable. 7.Check the coil resistance of the compressor between the terminal U, V, W, the value is 0.95Ω, if it is not meet the value, it means the compressor is failure and you should replace the compressor.
46	the communication	1.The cable between the control board and the drive board connect loose;	1.Reconnect the cable between the control board and the drive board;

7.TROUBLE SHOOTING

	between the outdoor control board and the drive board has in trouble	2.The cable between the control board and the drive board is failure; 3.The drive board is failure 4.The control board is failure	2.Replace the communication cable between the control board and the drive board; 3.Replace the drive board; 4.Replace the control board.
47	discharge temperature too high fault	1. The refrigerant of the unit is not enough; 2.The refrigerant of the unit is not enough due to add the length of the installation pipe 3.Throttling service is failure; 4.The outdoor ambient temperature is too high	1.Check the welding point to confirm whether the unit has exist leakage point, and then add some refrigerant. 2.Add some refrigerant refer to the installation user manual; 3.Replace the throttling service(such as capillary, expansion valve) 4. Normally protection.

7.TROUBLE SHOOTING

3 Indoor unit error code:

When the failure happens in the indoor unit or the outdoor unit, after the compressor turns off, when you press the sleep button of the remote control for 4 times, the indoor display board will display the following error code, if the indoor unit installs with the wire control device, the error code will display on the wire control device directly:

sheet 2 indoor error code list

error code	error description	the root cause may be one of the reason	how to deal with
51	Drain protection	1. The water level of the drain pan exceed safe level; 2. The cable of the water level switch connect loose; 3.The water level switch is failure; 4. The control board is failure.	1. Check whether there are something to block the drain hose or the height of the drain hose is too high; 1.2 Check the water pump and replace the water pump if the water pump is failure; 2. Reconnect the cable of the water level switch refer to the wiring diagram; 3. Replace the water level switch; 4. Replace the control board.
55	Mode conflict	1. The user set the conflicting mode for more than two indoor units	1. Reset the operate mode for the indoor unit, for the one outdoor unit, the user should avoid to set the conflicting operate mode with the indoor units
64	The communication between the indoor unit and the outdoor unit is failure	1. The connection cable between the indoor unit and the outdoor unit connect wrong; 2.The communication cable between the indoor unit and the outdoor unit connect loose or the cable between the indoor control board to terminal connect loose or the cable between the outdoor control board to the terminal connect loose; 3.The communication cable between the indoor unit and the outdoor unit is failure or the cable between the indoor control board to terminal is failure or the cable between the outdoor control board to the terminal is failure; 4. The indoor control board is failure; 5. The outdoor control board is failure.	1. Reconnect the connection cable refer to the indoor and outdoor wiring diagram; 2. Reconnect the communication cable refer to the indoor and outdoor wiring diagram; 3. Replace the communication cable refer to the indoor and outdoor wiring diagram; 4. Replace the indoor control board; 5. Replace the outdoor control board.
72	The indoor fan motor fault	1. The cable of the indoor fan motor connect loose; 2. The cable of the indoor fan motor is failure; 3.The indoor fan motor is failure; 4. The indoor control board is failure; 5.The indoor fan has been blocked.	1. Reconnect the cable of the fan motor; 2. Replace the cable of the fan motor; 3. Replace the fan motor; 4. Replace the indoor control board; 5. Check the indoor fan and ensure the indoor fan can run normally.
73	Indoor EEPROM fault	1.Indoor EE components is failure; 2.The control circuit of the EE components is failure; 3.The EE components has been inserted with opposite direction	1. Replace the EE components; 2. Replace the indoor control board; 3. Reassembly the EE components of the indoor control board
81	The indoor room	1. The cable of the room temperature	1.Reconnect the cable of the room

7.TROUBLE SHOOTING

	temperature sensor fault	sensor connect loose; 2. The room temperature sensor is failure; 3. The sampling circuit is abnormally	temperature sensor; 2. Replace the room temperature sensor; 3. Replace the indoor control board.
83	The coil temperature sensor of the evaporator fault	1.The cable of the coil temperature sensor of the evaporator is failure; 2. The coil temperature sensor of the evaporator is failure; 3. The sampling circuit is abnormally	1. Reconnect the cable of the coil temperature sensor of the evaporator; 2. Replace the coil temperature sensor of the evaporator; 3. Replace the indoor control board.
85	The temperature sensor of the wiring controller fault	1. The temperature sensor of the wiring controller is failure; 2. The sampling circuit of the wiring controller is failure	1. Replace the wiring controller; 2. Replace the wiring controller
EA	The communication between the display board and the indoor control board fault	1.The wiring between the display board to the indoor control board connect loose; 2.The sequence of the wiring between the display board to the indoor control board is wrong; 3.The wiring between the display board to the indoor control board is failure; 4. The display board is failure; 5. The indoor control board is failure.	1. Reconnect the between the display board to the indoor control board; 2. Replace the wiring between the display board to the indoor control board; 3. Replace the wiring between the display board to the indoor control board; 4. Replace the display board; 5. Replace the indoor control board.

7.TROUBLE SHOOTING

NOTE 1:

If the indoor unit can not turn on or the indoor unit turn off itself after 30s, at the same time the unit do not display the error code, please check the fire and the socket of the control board.

Note 3:Overload in cooling mode

overload in cooling mode		
sr.	The root cause	Corrective measure
1	The refrigerant is excessive	Discharge the refrigerant, and recharge the refrigerant refer to the rating label
2	The outdoor ambient temperature is too high	Please use within allowable temperature range
3	The air outlet and air inlet of the outdoor unit is short-circuit	Adjust the installation of the outdoor unit refer to the user manual
4	The outdoor heat exchanger is dirty, such as condenser	Clean the heat exchanger of the outdoor unit, such as condenser
5	The speed of the outdoor fan motor is too low	Check the outdoor fan motor and fan capacitor
6	The outdoor fan is broken or the outdoor fan is blocked	Check the outdoor fan
7	The air inlet and outlet has been blocked	Remove the blocked thing
8	The expansion valve or the capillary is failure	Replace the expansion valve or the capillary

Note 4:Over load in heating mode

Overload in heating mode		
sr.	The root cause	Corrective measure
1	The refrigerant is excessive	Discharge the refrigerant, and recharge the refrigerant refer to the rating label
2	The indoor ambient temperature is too high	Please use within allowable temperature range
3	The air outlet and air inlet of the indoor unit is short-circuit	Adjust the installation of the indoor unit refer to the user manual
4	The indoor filter is dirty	Clean the indoor filter
5	The speed of the indoor fan motor is too low	Check the indoor fan motor and fan capacitor
6	The indoor fan is broken or the outdoor fan is blocked	Check the indoor fan
7	The air inlet and outlet has been blocked	Remove the blocked thing
8	The expansion valve or the capillary is failure	Replace the expansion valve or the capillary

8. CHECKING COMPONENTS

8-1. Check refrigerant system

TEST SYSTEM FLOW

Conditions: ① Compressor is running.

② The air condition should be installed in good ventilation.

Tool: Pressure Gauge

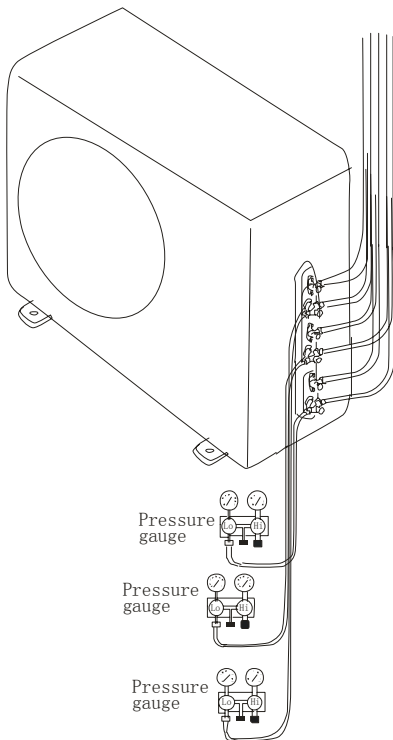
Technique: ① see ② feel ③ test

SEE ----- Tube defrost.

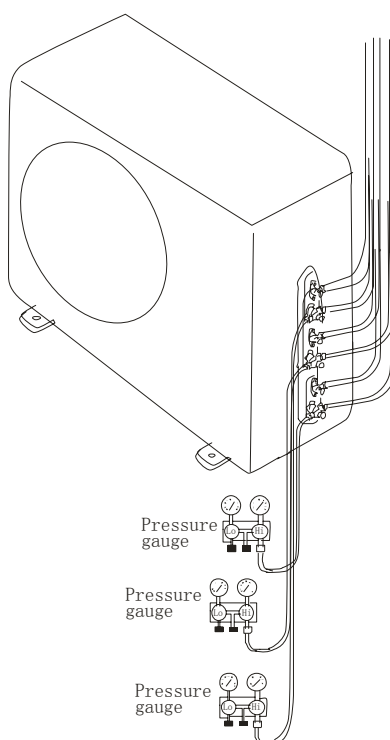
FEEL ----- The difference between tube's temperature.

TEST ----- Test pressure.

cooling run

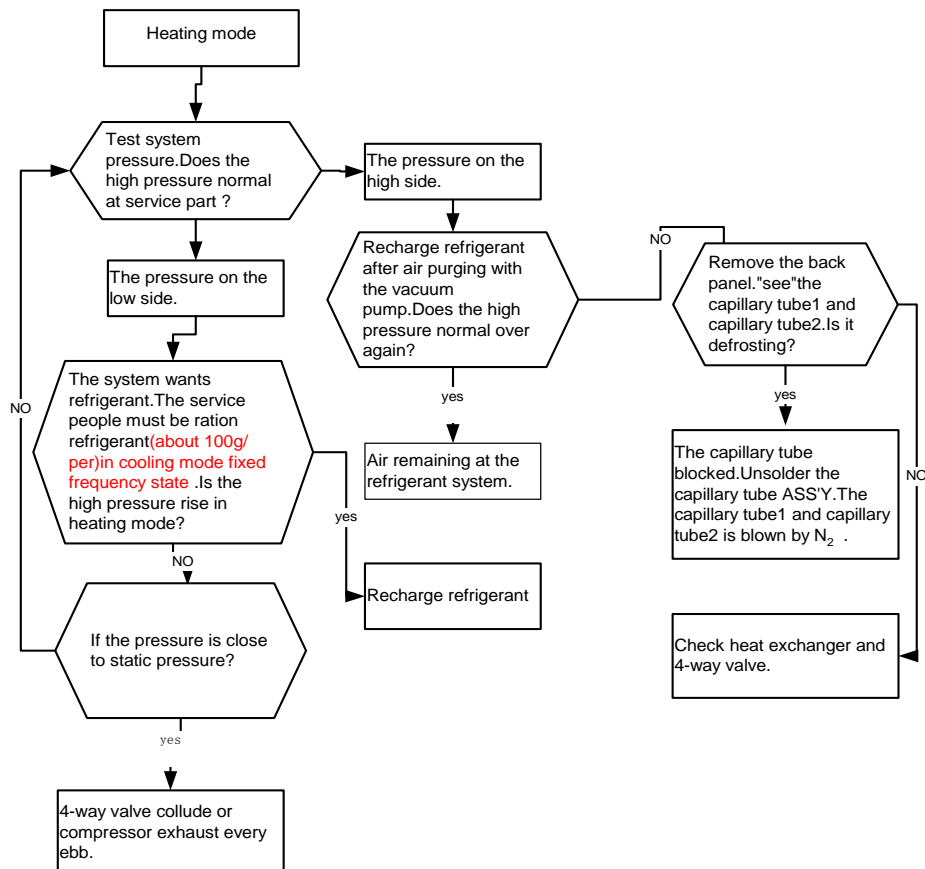
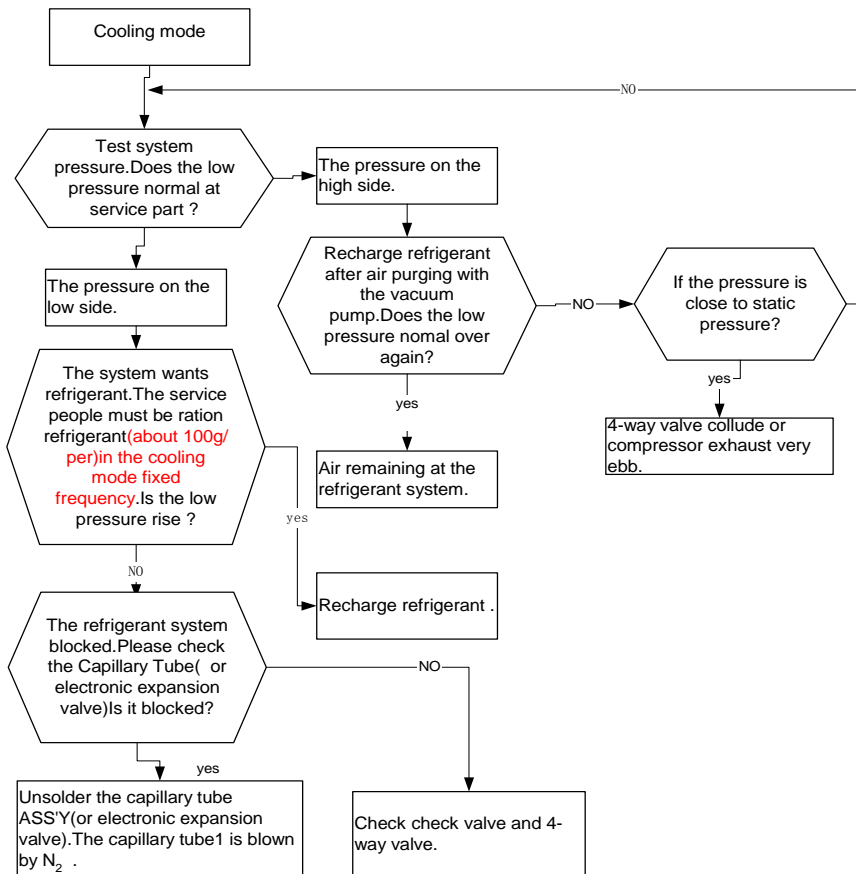


heating run



8. CHECKING COMPONENTS

Test system flow



8. CHECKING COMPONENTS

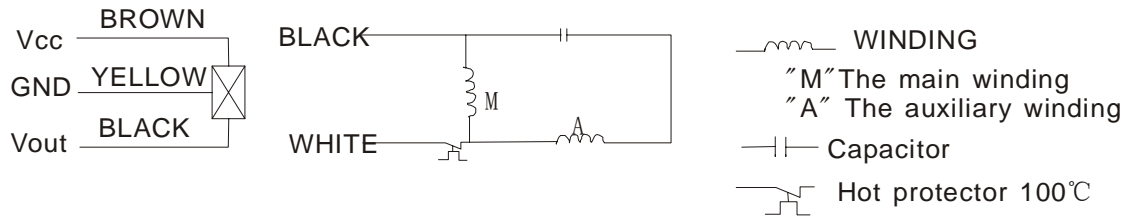
8-2. Check parts unit

1. INDOOR FAN MOTOR

.MOTOR EXAMINE AND REPAIR

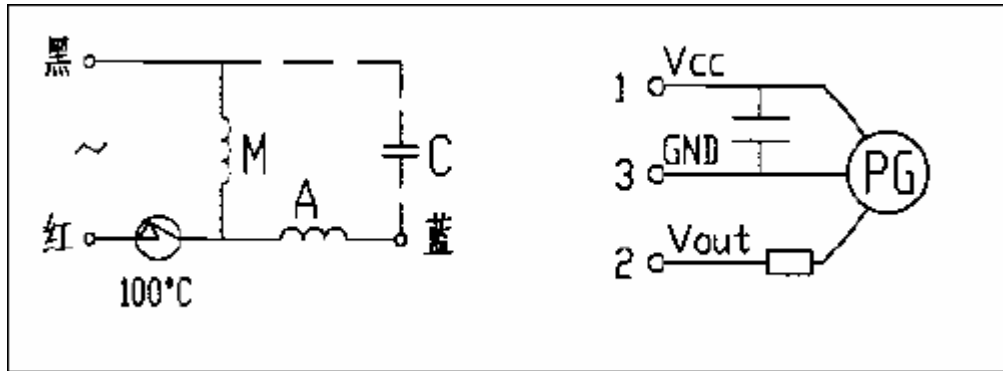
Circuit diagram:

SSH-PM074DC, SSH-PM094DC, SSH-PM124DC

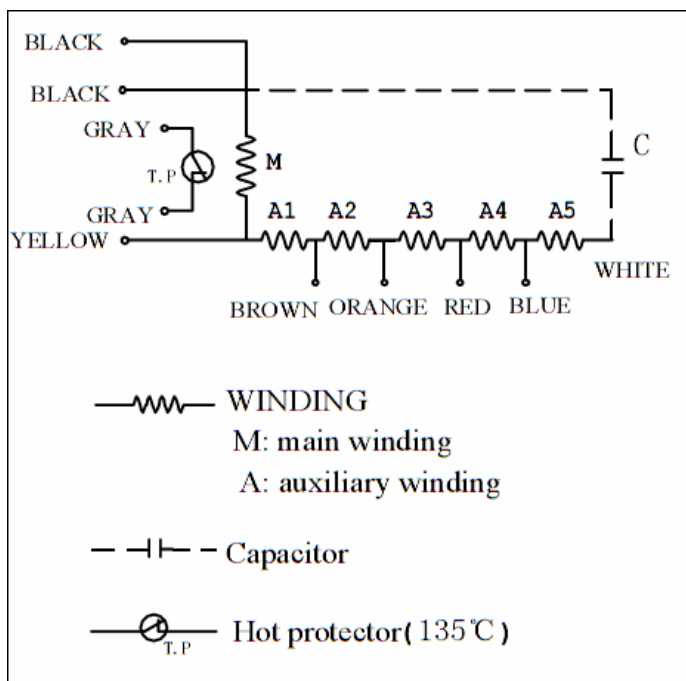


SSH-PM184DC

2) RPG25A-6



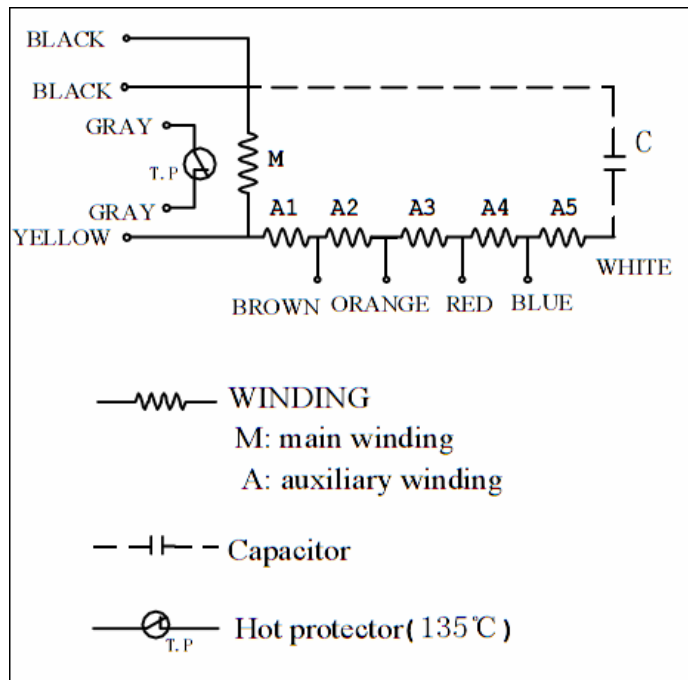
3) YSK95-25-4HS10



M: 329 Ω A1: 36.5 Ω A2: 31 Ω A3: 30.5 Ω A4: 34.2 Ω A5: 91 Ω

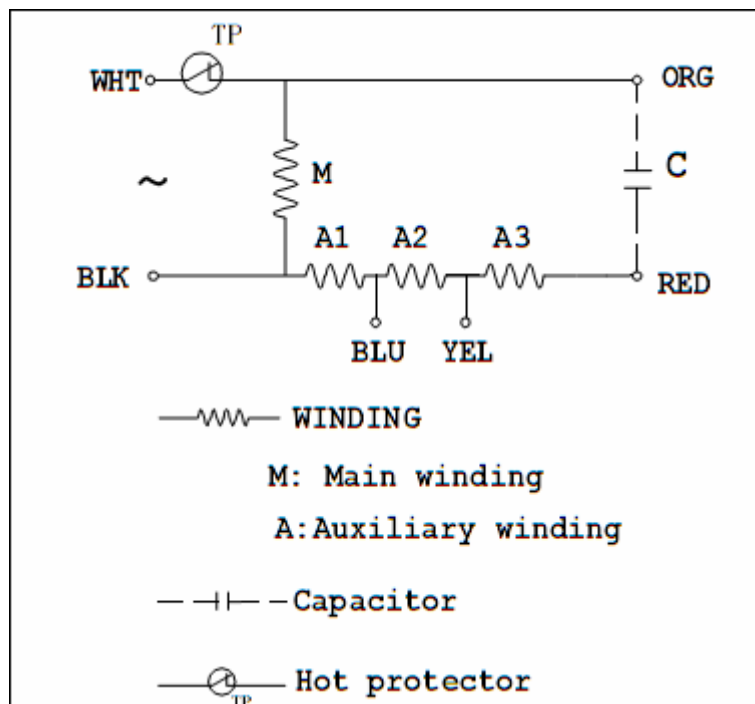
8. CHECKING COMPONENTS

4) YSK95-40-4HS11



M:138 Ω A1: 42.5 Ω A2:22 Ω A3:17.6 Ω A4:14.6 Ω A5:81.4 Ω

5) YDK95-28-4-B



M:240 Ω A1:60 Ω A2:33 Ω A3:143 Ω

Test in resistance.

TOOL: Multimeter.

Test the resistance of the main winding. The indoor fan motor is fault if the resistance of

8. CHECKING COMPONENTS

main winding 0(short circuit)or ∞ (open circuit) .

Test in voltage

TOOL: Multimeter.

Insert screwdriver into to rotate indoor fan motor slowly for 1 revolution or over, and measure voltage "YELLOW" and "GND" on motor. The voltage repeat 0V DC and 5V DC.

Notes:

- 1) Please don't hold motor by lead wires.
- 2) Please don't plug IN/OUT the motor connector while power ON.
- 3) Please don't drop hurl or dump motor against hard material. Malfunction may not be observed at early stage after such shock. But it may be found later, this type of mishandling void our warranty.

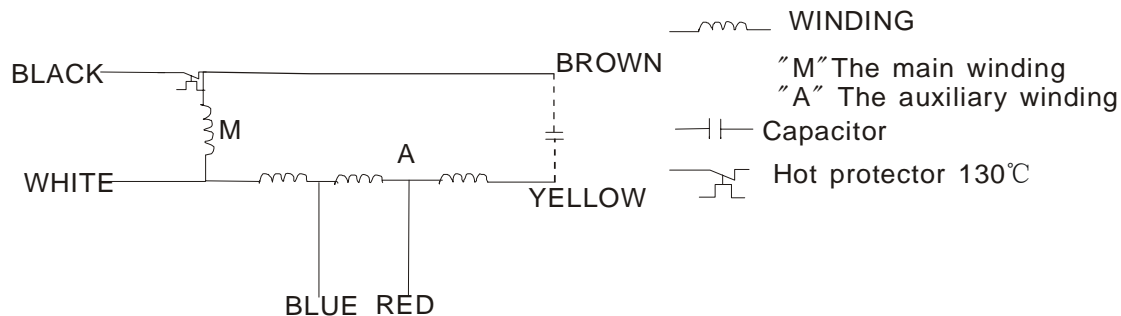
2. OUTDOOR FAN MOTOR

MOTOR EXAMINE AND REPAIR

Circuit diagram

SRH-PM24DC

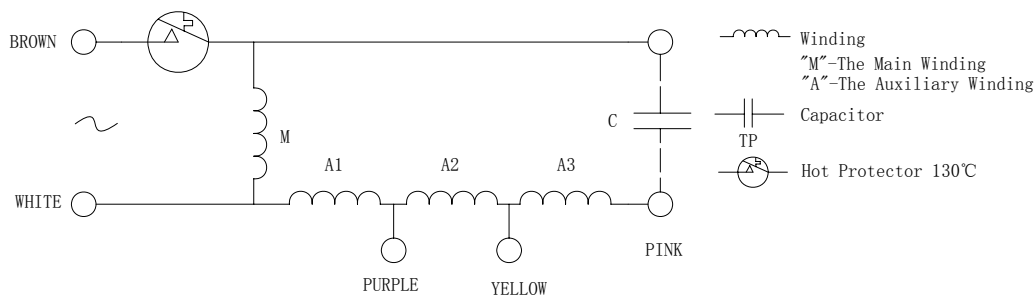
1) YDK70-6H-3:



Winding resistance (at 20°C)

M: 78 Ω A: 80 Ω

2) YDK55-6I-8:



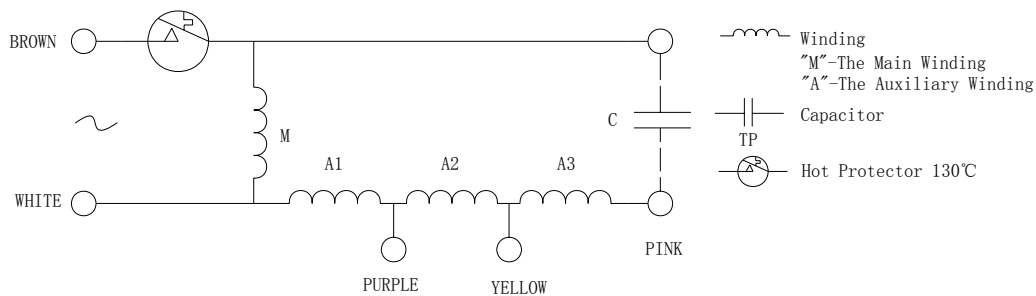
Winding resistance (at 20°C)

M: 185 Ω A: 200 Ω

SRH-PM18DC

3) YDK29-6I-22:

8. CHECKING COMPONENTS

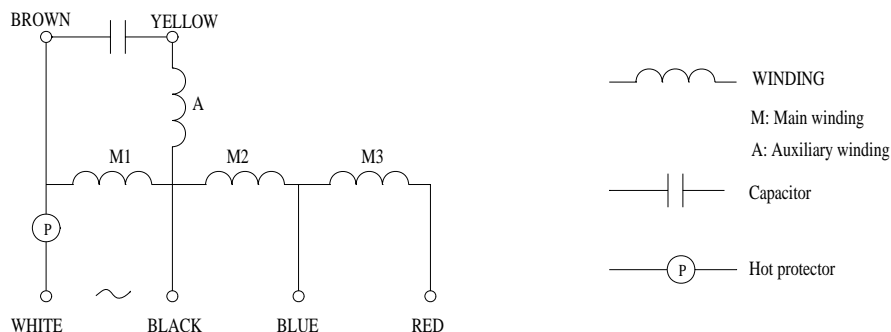


Winding resistance (at 20°C)

M: 283.5 Ω A: 180 Ω

SRH-PM36DC

4) YDK95-6-9043



Winding resistance (at 20°C)

M1:59.1 Ω M2:20.3 Ω M3:15.3 Ω A: 85.8 Ω

Test in resistance.

TOOL: Multimeter.

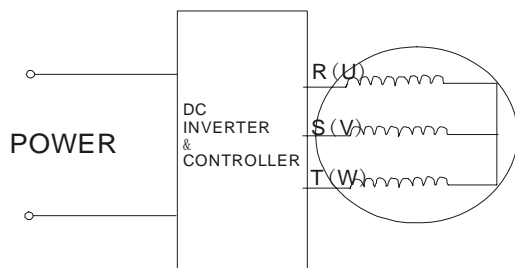
Test the resistance of the main winding. The outdoor fan motor is fault if the resistance of main winding 0(short circuit)or ∞ (open circuit) .

Notes:

- 1) Please don't hold motor by lead wires.
- 2) Please don't plug IN/OUT the motor connecter while power ON.
- 3) Please don't drop hurl or dump motor against hard material. Malfunction may not be observed at early stage after such shock. But it may be found later, this type of mishandling void our warranty.

3. COMPRESSOR

COMPRESSOR EXAMINE AND REPAIR



8. CHECKING COMPONENTS

Test in resistance.

TOOL: Multimeter.

Test the resistance of the winding. The compressor is fault if the resistance of winding 0(short circuit)or ∞ (open circuit)

Familiar error:

- 1) Compressor motor lock.
- 2) Discharge pressure value approaches static pressure value .
- 3) Compressor motor winding abnormality.

Notes:

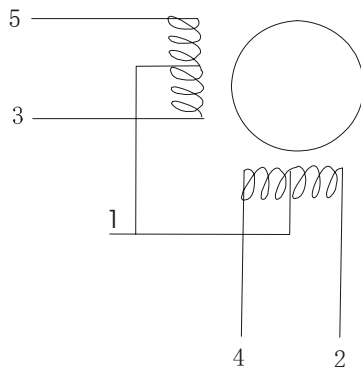
- 1) Don't put a compressor on its side or turn over.
- 2) Please assembly the compressor in your air conditioner rapidly after removing the plugs.
Don't place the comp. In air for along time.
- 3) Avoiding compressor running in reverse caused by connecting electrical wire incorrectly.
- 4) Warning! In case AC voltage is impressed to compressor, the compressor performance will below because of its rotor magnetic force decreasing.

4. INDUCTANCE

Familiar error:

- 1) Sound abnormality
- 2) Insulation resistance disqualification.

5. STEP MOTOR



Test in resistance.

TOOL: Multimeter.

Test the resistance of winding. The stepper motor is fault if the resistance of winding 0(short circuit)or ∞ (open circuit) .

6. FUSE

Checking continuity of fuse on PCB ASS'Y.

- 1) Remove the PCB ASS'Y from the electrical component box. Then pull out the fuse from the PCB ASS'Y (Fig.1)

8. CHECKING COMPONENTS

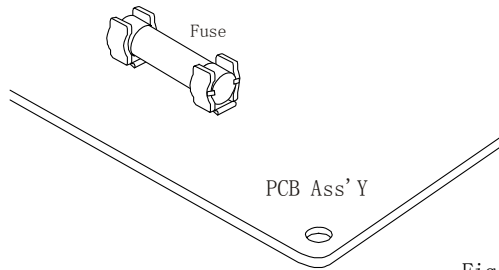


Fig. 1

- 2) Check for continuity by a multimeter as shown in Fig.2.

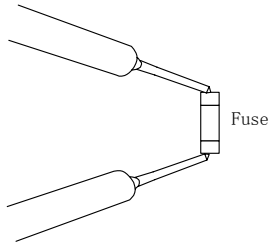


Fig. 2

7. CAPACITOR

- 1) Remove the lead wires from the capacitor terminals, and then place a probe on the capacitor terminals as shown in Fig.3.
 - 2) Observe the deflection of the pointer, setting the resistance measuring range of the multimeter to the maximum value.
- * The capacitor is "good" if the pointer bounces to a great extent and then gradually returns to its original position.
 - * The range of deflection and deflection time differ according to the capacity of the capacitor.

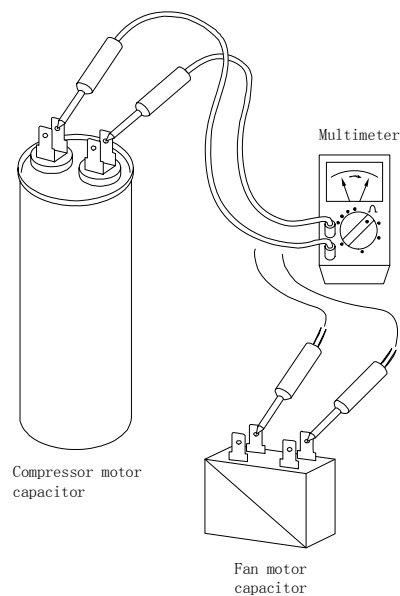


Fig. 3

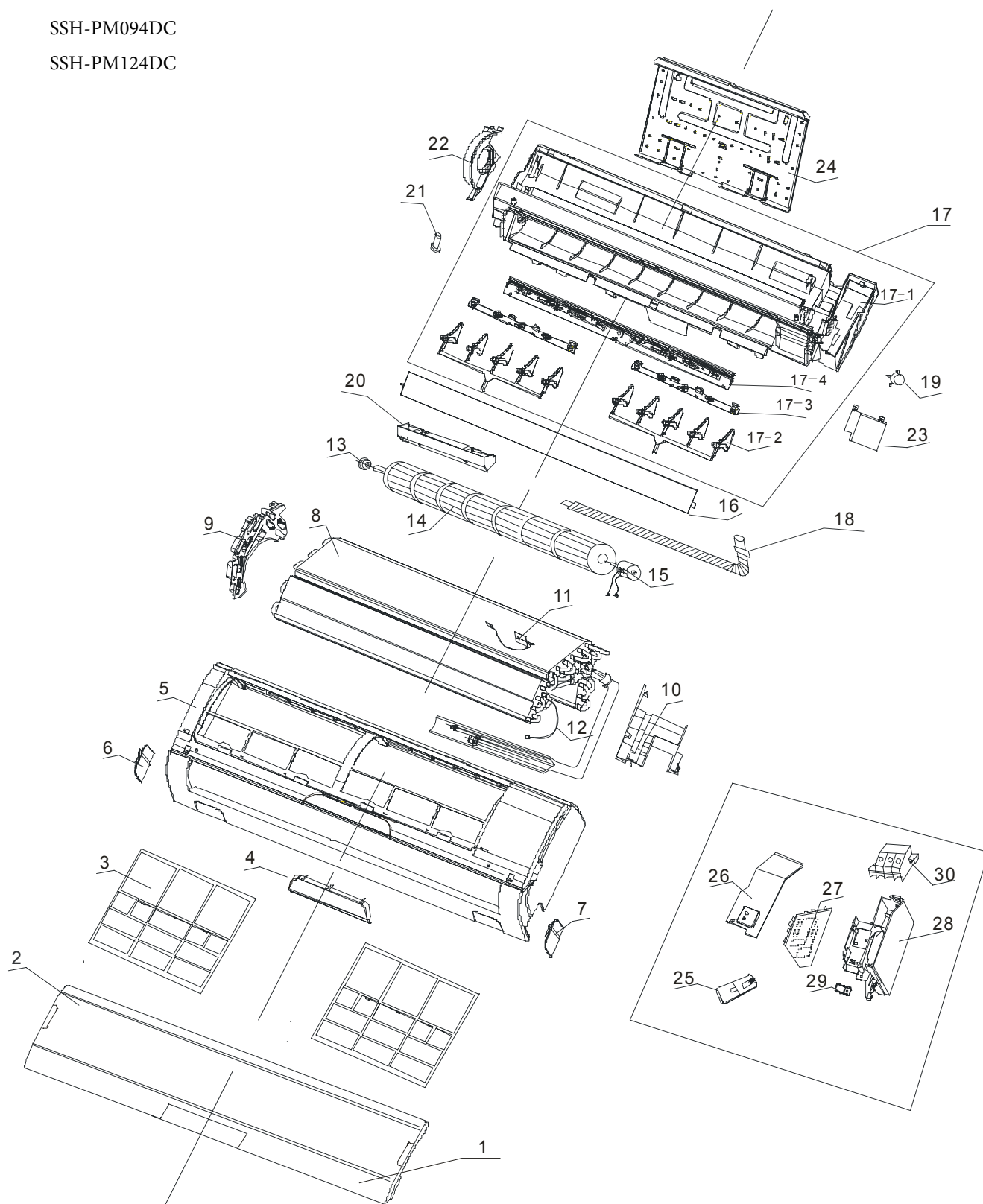
9. PARTS LIST

9-1. INDOOR

SSH-PM074DC

SSH-PM094DC

SSH-PM124DC



9. PARTS LIST

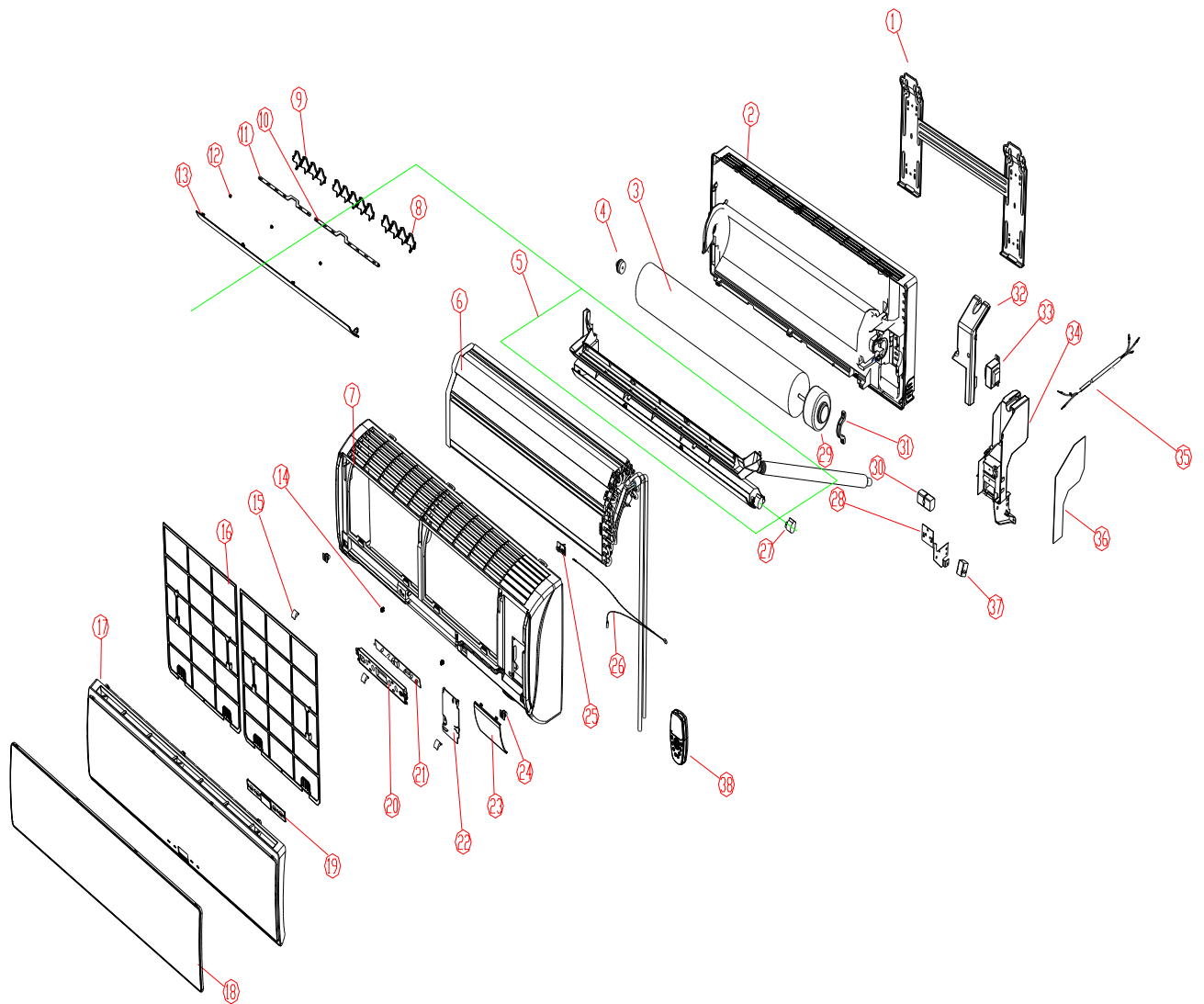
KEY NO.	PART CODE	PART NO.	DESCRIPTION	Q'TY	NOTE
1	1302820	RZA-2-1503-031-02-0	ORNAMENT	1	ZA4
	1340066	K33210057		1	ZC4
2	1203298	RZA-2-1601-086-XX-0	FRONT PANEL	1	ZA4
	1359354	G1K30/R00.02-01		1	VG4
	1364975	G1K31/R00.02.01-01		1	VL4
	1411772	G1K39/R00.02-01		1	VT4
	1391894	G1K32/R00.02-01		1	UP4
	1407799	G1K34/R00.02-01		1	UL4
	1407800	G1K34/R00.02-02			
	1399999	G1K3E/R00.02-01		1	UQ4
	1411938	G1K3A/R00.02-01		1	NS4
	1387086	K31470241.01		1	ZC4
	1457000	G1K3G/R00.02-01		1	VQ4
3	1203049	RZA-0-2307-006-01-0	AIR FILTER ASS'Y	2	ZA4、 ZC4
	1320776	K33B10003		2	VG4、 VL4、 VT4、 UP4、 UL4、 UQ4、 VQ4、 NS4
4	1203444	RZA-2-2258-062-XX-1	DISPLAY PANEL	1	ZA4、 ZC4
	1260740	G1C26/R00.02-03		1	UL4
	1260789	G1C28/R00.02-03		1	UQ4
5	1359347	G1K30/R00.02-02	GRILL	1	VG4、 VL4、 VT4、 UP4、 UL4、 UQ4、 VQ4、 NS4
	1370234	RZA-2-1501-053-02-		1	ZA4、 ZC4
6	--	--	--	--	NO
7	--	--	--	--	NO
8	1464103	K37320329	EVAPORATOR ASS'Y	1	
9	1203331	RZA-2-2219-043-XX-0	EVAPORATOR BRACKET	1	
10	8005608	K33870003	MOTOR COVER	1	
11	1387643	K1C510077	INDOOR SENSOR ASS'Y	1	
12	1383891	DG19R5-10	COIL SENSOR ASS'Y	1	
13	1203072	RZA-0-2510-106-XX-1	BEARING ASS'Y	1	
14	1304065	RZA-2-2509-123-03-0	CROSS-FLOW FAN ASS'Y	1	

9. PARTS LIST

15	1334123	K1B310114	FAN MOTOR ASS'Y	1	
V16	1359263	G1K30/R00.01-01	FLAP	1	VG4、VL4、VT4、UP4、UL4、UQ4、 VQ4、NS4
	1370242	RZA-2-1523-056-02-0		1	ZA4、ZC4
17	1203751	RZA-0-2201-141-XX-0	BASE ASS'Y	1	
17-1	1203273	RZA-2-2231-019-XX-0	BASE	1	
17-2	1203280	RZA-2-1519-037-XX-0	BLADE	2	
17-3	1203661	RZA-2-2478-112-XX-0	FLAP FIXED PLATE	2	
17-4	1203627	RZA-2-2360-004-XX-0	INNER FLAP	1	
18	1334532	K33930002	DRAINAGE HOSE ASS'Y	1	
19	1225096	DG13B1-01	STEPPER MOTOR	1	
20	1473199		DISPLAY BOARD ASS'Y	1	ZA4
	1473182			1	VG4、VL4
	1473183			1	VT4
	1473184			1	UP4、UL4
	1473185			1	UQ4
	1473203			1	ZC4
	1473195			1	NS4
	1473206			1	VQ4
21	--	--	--	--	NO
22	1204031	RZA-2-2514-112-XX-0	BEARING COVER	1	
23	1203639	RZA-2-2362-032-XX-0	FIXED BOARD	1	
24	1339745	K33190002	INSTALLATION PLATE	1	
25	1465785		REMOTE CONTROLLER	1	H1
	1465783			1	J1
	1342348			1	E4-07
26	1203207	RZA-0-5315-023-XX-0	ELECTRICAL CONTROL BOX COVER	1	ZA4、ZC4
	1369210	+G1K30/R00.05-02		1	VG4、VL4、VT4、UP4、UL4、UQ4、 NS4、VQ4
27	1473172	+K364D0579	CONTROL BOARD ASS'Y	1	09 (07) VG4、VL4、VT4、UP4、UL4、 UQ4、NS4、VQ4、ZC4、ZA4
	1473173	+K364D0582		1	12 VG4、VL4、VT4、UP4、UL4、UQ4、 NS4、VQ4、ZC4、ZA4
28	1203964	RZA-2-5307-051-01-1	ELECTRICAL CONTROL BOX	1	ZA4、ZC4
	1369208	+G1K30/R00.05-01			VG4、VL4、VT4、UP4、UL4、UQ4 NS4、VQ4
29	1203961	RZA-2-5304-016-01-2	CLIP	1	
30	1472486	+K36E10050	TERMINAL BOARD ASS'Y	1	

9. PARTS LIST

SSH-PM184DC



9. PARTS LIST

KEY NO.	PART CODE	PART NO.	DESCRIPTION	Q'TY	NOTE
1	1248081	KT13G0-19	installation plate assy	1	
2	1362443	G2C00/R00.01.01-00	base parts	1	UP3、UL3、UQ3
	1338219	G2C10/R00.01.01-00		1	VG3、VL3、VT3
3	1247788	DG22G1-18	cross-flow fan	1	
4	1223738	KT33F0-03	axletree	1	
5	1362522	G2C00/R00.01.02-00	air outlet parts	1	UP3、UL3、UQ3
	1356404	G2C30/R00.01.02-00		1	VG3、VL3、VT3
6	1383319	G2C30/RZ01.04-00	refrigerant system	1	
7	1362468	G2C00/R00.02-04	shell	1	UP3、UL3、UQ3
	1355966	G2C30/R00.02-02		1	VG3、VL3、VT3
8	1248649	G2C00/R00.01.02-03	Vertical Level Vane	2	
9	1248650	G2C00/R00.01.02-04	Vertical Level Vane	11	
10	1248841	G2C00/R00.01.02-05	center staff	1	
11	1248843	G2C00/R00.01.02-06	center staff	1	
12	1222824	KT25F0-05	bearing	3	
13	1362498	G2C00/R00.01.02-02	level vane	1	UP3、UL3、UQ3
	1356400	G2C30/R00.01.02-02			VG3、VL3、VT3
14	1223852	G2A00/R00.02.01-07	baffle	2	
15	1338216	AS18HR4FWVUH.FJ-01	crew cover	3	
16	1372780	G2C00/R00.02-05	filter	2	
17	1372717	G2C05/R00.02-01	panel	1	UQ3
	1372715	G2C03/R00.02-01		1	UP3
	1372714	G2C02/R00.02-01		1	UL3
	1348483	G2C30/R00.02-01		1	VG3
	1364809	G2C31/R00.02.01-01		1	VL3
	1412766	G2C34/R00.02-01		1	VT3

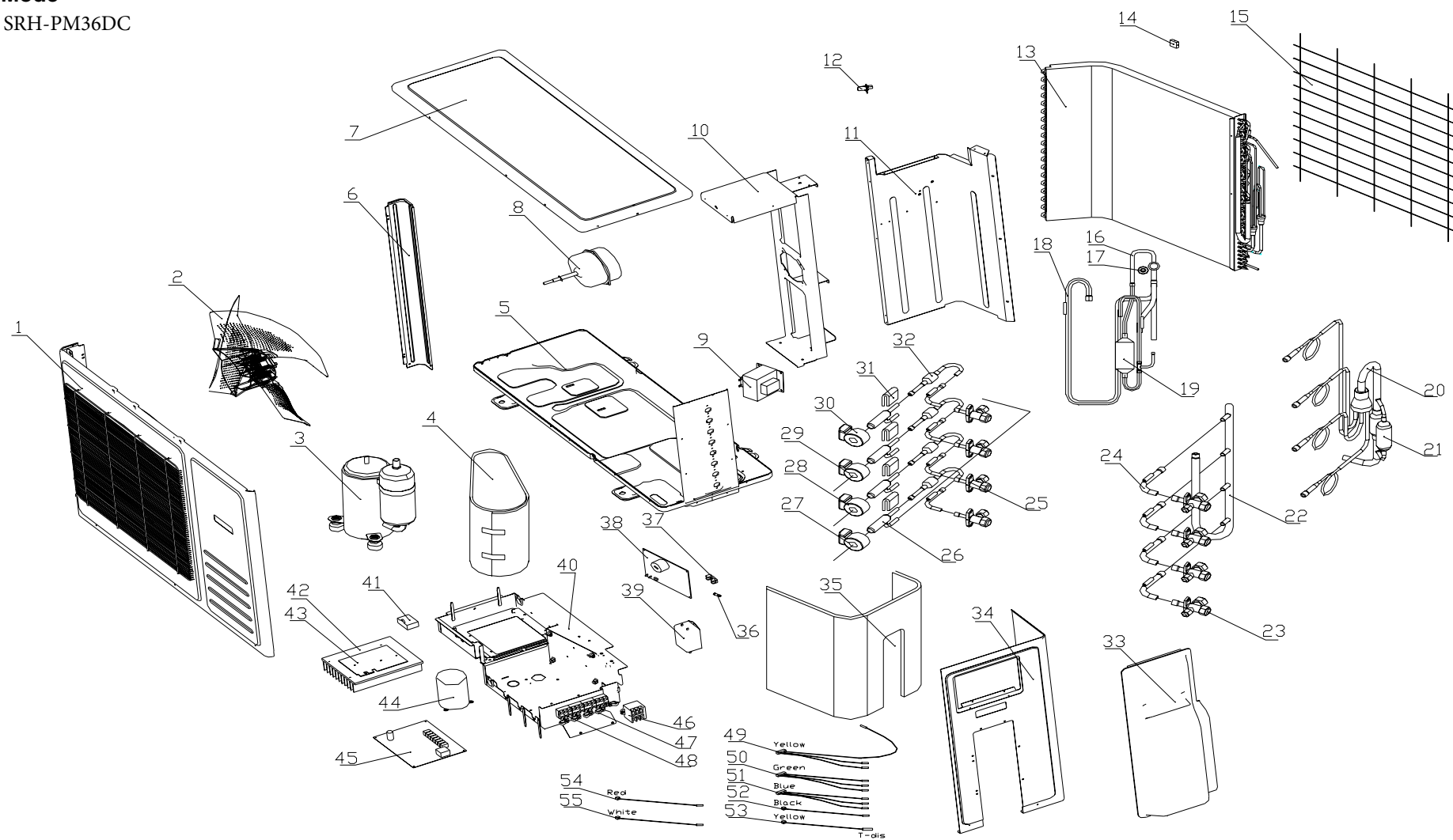
9. PARTS LIST

18	1263768	G1C28/R00.02-02	ornamental plate (drawing)	1	UQ3
	1313245	G2C03/R00.02-02		1	UP3
	1380616	G2C02/R00.02-02 (ZX)		1	UL3
	--	--		--	VG3
	1364810	G2C31/R00.02-02			VL3
	--	--		--	VT3
19	1326018	G1C20/R00.05.01-03	display film (drawing)	1	UP3
	1260739	G1C26/R00.02-03		1	UL3
	1356581	G2C30/R00.02-03		1	VG3
	1417671	G1K39/R00.02-02		1	VT3
20	1276586	G1C20/R00.05.01-02	display box	1	UP3、UQ3、UL3
	1338256	G1C60/R00.05.01-01		1	VG3、VL 3
	1412963	G1K39/R00.05.01-01		1	VT3
21	1241510	KGK-5941.01.03-00	display board	1	UP3
	1393142	K36430280		1	UQ3、UL3
	1357097	K36430218		1	VG3、VL3
	1417869	K36412713		1	VT3
22	1338217	G1G00/R00.02-06	wiring distribution cover assy	1	
23	1362488	G2C00/R00.02-06	display panel	1	
24	1223852	G2A00/R00.02.01-06	baffle	2	
25	1345677	K331H0008	sensor mounting plate	1	
26	1387643	K1C510077	Temperature Sensor	1	
27	1225096	DG13B1-01	step motor	1	
28	1248516	G2C00/R00.05-04	mounting plate	1	
29	1260327	DG13G2-02	fan motor	1	
30	1328841	+DG17D4-10	terminal panel	1	
31	1223749	G1A00/R00.00-02	holder	1	
32	1316391	+G2C00/R00.05-02	elec joint box cover	1	
33	1222254	+DG20B0-08	transformer	1	
34	1330937	+G2C10/R00.05-01	elec joint box	1	
35	1387643	K1C510077	Temperature Sensor	1	INDOOR SENSOR ASS'Y
	1383891	DG19R5-10		1	COIL SENSOR ASS'Y
36	1473170	+K36412216	control board	1	VG3、VL3、VT3
	1473839	+K364D0336		1	UQ3、UP3、UL3
37	--	--	--	--	
38	1465785	K36210304	REMOTE CONTROLLER	1	H1
	1465783	K36210303		1	J1
	1342348	+DG11E4-07 (HSN)		1	E4-07

9. PARTS LIST

Mode

SRH-PM36DC



9. PARTS LIST

KEY NO.	PART CODE	PART NO.	DESCRIPTION	Q'TY	NOTE
1	1403537	K31430114	FRONT PANEL	1	
2	1405350	K38310026	propeller fan	1	fan
3	1339666	K37210136	compressor	1	ATL232SDNC9AU
4	1474130	+RZA-2-2476-135-XX-0	noise-insulation cotton	1	
5	1353069	K31120101	base parts	1	
6	1382782	1382782	mounting plate	1	
7	1400459	K31710028	upper cover	1	
8	1446243	K1B310344	FAN MOTOR	1	
9	1302261	RZA-4-2649-069-XX-0	Electromagnetic coil	1	
10	1408125,	K331F0057	motor bracket	1	
11	1341294	K33670021	separate plate assy	1	
12	1204958	RZA-2-5303-054-XX-0	sensor mounting plate	1	
13	1357857	K37340271	condenser ASS'Y	1	
14	1202234	RZA-2-2431-005-XX-0	rubber pad	1	
15	1469447	K33370020	back guard filter	1	
16	1258657	DG26D2-01(A)	4-WAY VALVE	1	
17	1205798	RZA-4-2649-072-XX-0	Electromagnetic coil	1	
18	1357312	K37450053	suction tube assy	1	
19	1357614	K37440100	discharge tube assy	1	
20	1307360	RZA-0-4207-075-XX-0	outlet tube ASS'Y	1	
21	1203402	RZA-0-4505-008-XX-0	desiccation strainer	1	
22	1357737	K37410397	pipe ASS'Y	1	
23	1370562	K37580051	3/8 stop valve	4	
24	1446363	K37570097	3/8 stop valve ASS'Y	4	
25	1369915	K37580047	1/4 stop valve	4	
26	1300307	RZA-0-4519-021-JT-0	electric expansion valve	4	
27	1206640	RZA-4-2649-074-XX-0	Electromagnetic coil A	1	
28	1206641	RZA-4-2649-075-XX-0	Electromagnetic coil B	1	
29	1301887	RZA-4-2649-081-XX-0	Electromagnetic coil C	1	
30	1312282	K37540002	Electromagnetic coil D	1	
31	1203230	RZA-2-2475-017-XX-0	damping block	4	
32	1384279	K37530035	electric expansion valve ASS'Y	4	
33	8001840	RZA-2-2369-137-XX-0	valve cover	1	
34	1301634	RZA-0-1115-001-XX-0	side panel parts	1	
35	1474126	+K33AB0005	noise-insulation cotton	1	
36	1366355	K16610032	fuse	1	
37	1366386	K16B10004	fuse bracket	1	
38	1473255	+K364A0002	filter board	1	
39	1447469	K13410015	Power filter	1	
40	1446293	K33540078	elec joint box assy	1	
41	1202889	RZA-0-2239-023-XX-0	Fan capacitor	1	

9. PARTS LIST

42	1447303	K33AE0049	radiator	1	
43	1474883	+K36470215	Driver board(IPM assy)	1	
44	1393414	K12310096	Al electroanalysis capacitor	1	
45	1474877	+K364D0644	Contorl board	1	
46	1472471	+K36E10075	Power terminal panel	1	
47	1472473	+4-2379-123-03-0	Connect terminal panel	4	
48	1204045	3-9030-002-00-A	fixing clip	5	
49	1301839	4-5259-390-04-0	TEMPERATYRE SENSOR	1	yellow
50	1301832	4-5259-390-02-0	TEMPERATYRE SENSOR	1	green
51	1301833	4-5259-390-03-0	TEMPERATYRE SENSOR	1	blue
52	1301841	4-5259-390-05-0	TEMPERATYRE SENSOR	1	black
53	1301842	4-5259-290-01-0	TEMPERATYRE SENSOR	1	yellow
54	1312582	K1C510001	TEMPERATYRE SENSOR	1	red
55	1312591	K1C510002	TEMPERATYRE SENSOR	1	white